CAS SCIENTIFIC PATENT EXPLORER™ GUICK START GUIDE



How to log in to CAS Scientific Patent Explorer

Log in at cas.org/cas-solutions-login

If you have access to CAS SciFinderⁿ or CAS Chemical Compliance Index[™], you can use the same username and password for CAS Scientific Patent Explorer. Otherwise, a new username will be provided.



Search

Substance search

Search for substances and then view relevant patents for the results.

There are two types of substance searches available in CAS Scientific Patent Explorer, each with different advantages in various scenarios.

Structure search

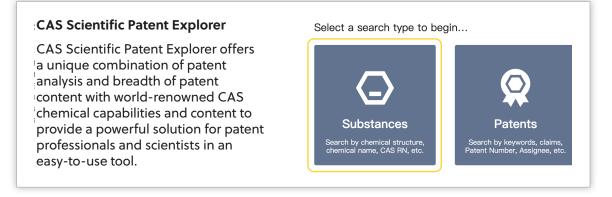
Retrieve substances that match, include, or are similar to the structure you draw/import.

Text search

Find substances that match your query, which can include substance names, CAS Registry Numbers[®], and document identifiers.

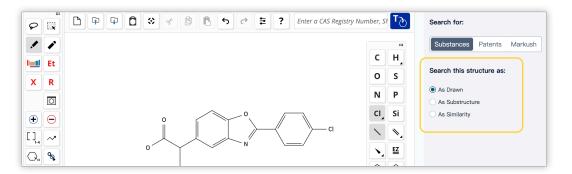
Substance search by structure

1. Click the **Substances** tile.

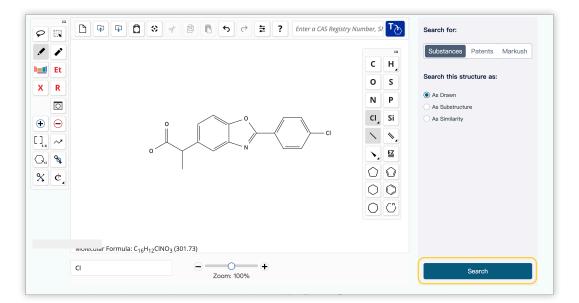


- 2. Draw a new structure or import an existing file.
- 3. Select the option to retrieve substances that include the structure you draw as a complete structure, substructure, or that are similar to your structure.

Note: You can apply **substructure query features** to narrow or broaden the search for the substructures embedded in the substances matched.



4. Click the Search button to submit the query and view the results.



Substance search by text

1. Click the Substances tile.

CAS Scientific Patent Explorer

CAS Scientific Patent Explorer offers a unique combination of patent analysis and breadth of patent content with world-renowned CAS chemical capabilities and content to provide a powerful solution for patent professionals and scientists in an easy-to-use tool.

\bigcirc	Q
Substances	Patents
Search by chemical structure, chemical name, CAS RN, etc.	Search by keywords, claims, Patent Number, Assignee, etc.

2. Click the **Text Search** tab.

Structure Search Text Search			
Search by Text			
CAS Registry Numbers	Enter up to 1000 characters	Q Search	

3. Click under **Search by Text** to expand the menu and then select the search text type.

Structure Search Text Search	
Search by Text	
CAS Registry Numbers	Q Search

Structure Search Text Search		
Search by Text		
CAS Registry Numbers	Enter up to 1000 characters	Q Search
CAS Registry Numbers		
Substance Name		
SMILES		
InChi		
MolFile (.mol)		



Structure Search Text Search		
Search by Text		
Substance Name	benoxaprofed	Q Search
	Benoxaprofen Benoxaprofen glucuronide (RS)-Benoxaprofen (±)-Benoxaprofen d/-Benoxaprofen	

4. Enter your search term. As you enter the text, auto suggestions may appear. You can select from the list of suggestions or continue typing.

Note: You may enter multiple search terms separated by a space, as well as Boolean logic. The search field has a 1,000-character limit.

5. Click the **Search** button to submit the query and view the results.

Structure Search Text Search		
Search by Text		
Substance Name	Benoxaprofen	Q Search

Patent search

There are multiple types of patent searches available in CAS Scientific Patent Explorer, each with different advantages in various scenarios.

Simple

Contrary to its name, Simple search tends to be used by our most advanced users. It consists of a search bar for text searches with Boolean logic.

Advanced

With Advanced search, you can define exactly what you want to find. It is possible to create a query piece by piece, selecting the different fields that your keywords are going to be searched in and the operators that will help you make your query specific. It allows for the most control over exactly what comes back in your search.

Bulk

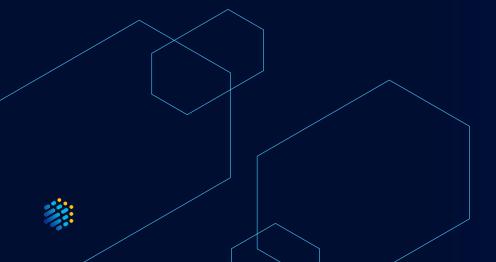
With bulk patent search, you can search up to 5,000 patent publication numbers (PN field), application numbers (APNO field), or a combination of both.

Chemical

Chemical search enables you to jump from structure searches to related patents and back again in one seamless workflow. You may also search by Markush structure.

Markush

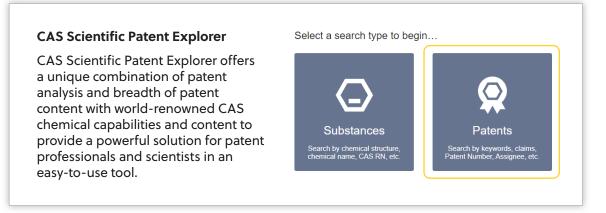
Use a Markush search to find patents that contain structures (including generic structures) matching the structure query. The inventory may not have tested or prepared all members of the family, but can make a chemically plausible claim of equivalence via a Markush structure.





Simple patent search

1. Click the **Patents** tile.



2. Click the search field to reveal field code shortcuts.

All Databases	1				Q , Search
	Keywords Fields		Assignee Fields		
	ТА	Title/Abstract	ANC	Current Assignee	
	TAC	Title/Abstract/Cla	Other Fields		
	TTL	Title	IN	Inventor Name	
	ABST	Abstract	PBD	Publication Date	
	Classification Num	ber Fields	APD	Application Date	
	IPC	IPC	PN	Publication Number	
	CPC	CPC			

Enter your search terms, which may be keywords, company names, patent information, or inventors.

Note: You may enter multiple search terms separated by a space, as well as Boolean logic. The search field has a 1,500-character limit. As you enter text, CAS Scientific Patent Explorer validates query syntax and errors appear in red.

nple Advance	d Bulk	Chemical		
🔇 All Databases	Modorna		= 0	Q Search



All patent types, databases, and major jurisdictions are selected by default. To edit, click the **All Databases** button, uncheck the appropriate box(es), and then click the **Save** button.

Select Databases			×
Patent type			
Application	✓ Patent	Utility	
All databases (115/115)			
P 5 🔨			
United Stat (US)	China (CN)	EPO (EP)	Japan (JP)
V Korea (KR)			
Major jurisdictions 🔨			
WIPO (WO)	Austria (AT)	🗹 🌉 Australia (AU)	Belgium (BE)
Benelux (BX)	Canada (CA)	Switzerland (CH)	Germany (DE)
Denmark (DK)	Spain (ES)	🗹 軠 Finland (FI)	France (FR)
🗹 💥 Great Britain (GB)	China Hon (H	K) 🗹 🚺 Ireland (IE)	Israel (IL)
🔽 🎞 India (IN)	China Macao (M	O) 🔽 🚍 Netherlands (NL)	Norway (NO)

If you deselect any databases and save, a red dot appears next to **All Databases** as a reminder that not all are selected.

🔇 All Databases	Start your search with a keyword, company name, patent number etc.	Q Search

3. After you've finished crafting your query, a result number preview appears. Click the **Search** button to view the results.

Simple Advance	ced Bulk	Chemical		
S All Databases	Moderna A	and rna	≈ 2,453	Q Search

Advanced patent search

At the bottom, you'll find a text box in which you can see how your query is coming along.

Field search	Search Helper
Main Fields Enter keyword, company name, or patent number	
AND Title/Abstract Example: car AND seat	
AND Current Assignee Example: Apple OR Samsung	
AND IPC Example: A61K OR C07H7/06	IPC Helper
+ Add Field	
Enter search terms in the fields above to preview your query here	
Preview patent results Includes Machine Translations for Title, Abstract, or Claims	Clear Search

On the left side of the screen, there is a refinement tool that will allow you to select the patent types and jurisdictions that you want to include in your search.



You'll notice that Advanced search is made up of different sections.

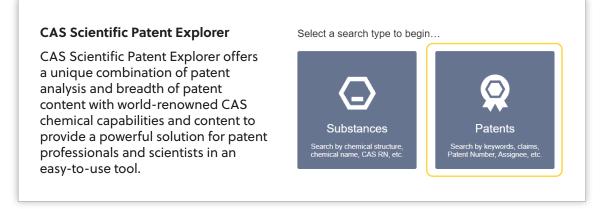
Fill in the search	Simple Advanced Bulk	Chemical				
fields you want —		Use the Search Helper to familarize				
to refine by	Patent type	Field search yourself with Boolean logic Search Helper				
	Application	Main Fields Enter keyword, company name, or patent number				
	Patent	AND V Title/Abstract V Example: car AND seat				
Locate patents	🕑 Utility	AND V Current Assignee V Example: Apple OR Samsung				
based on any		AND V IPC V Example: A61K OR C07H7/06 IPC Helper_				
features of	All databases (115/115)					
patent	🗹 IP 5 📃 🔨	+ Add Field Use the IPC and the CPC Helper to identify and				
documents	🕑 🌉 United Sta (US)	refine by techology classification				
	China (CN)					
Select the	EPO (EP)	Enter search terms in the fields above to preview your query here				
jurisdictions	Japan (JP)	1 T				
you want to	🕑 💽 Korea (KR)	Use command search to help build your query				
search in	Major jurisdictions ^					
	WIPO (WO)	Edit search As Combine searches				
	🗸 🚍 Austria (AT)	Preview patent results Includes Machine Translations for Title, Abstract, or Claims O Clear Search				

Refine your query by choosing fields and operators from the drop-down menus and by adding keywords in the text boxes.

Field sea	rch				Search Helper	\$
Main Field	is 🔹	Ente	r keyword, company name, or patent number			
AND 🔻	Title/Abstract	Exa	nple: car AND seat			
AND 🔻	Current Assignee 🔹	Exa	nple: Apple OR Samsung			
AND 🔻	IPC	Exa	nple: A61K OR C07H7/06		IPC Helper	
	Q		Title/Abstract Current Assignee IPC Main Fields			
	Text	×.	Title/Abstract			
	Classification Number	×.	Title			
Enter se	Company/People	•	Title/Abstract/Claims			
	Date	•	Title/Abstract/Claims/Description			
	Number	•	Abstract			
	Address	•	Claims			
🖍 Edit	Family	•	Description			
Preview p	atent results		Includes Machine Translations for Title or A	bstract	Clear Search	

Chemical structure patent search

1. Click the Patents tile.



2. Click the **Chemical** tab.

Simple Advance	ed Chemical	
S All Databases	Start your search with a keyword, company name, patent number etc.	Q Search

3. Click Patents under Search for.

Structure Search Text Search	
The structure editor has been updated with a new look and feel. Learn mor	e
Image: Solution of the solution of	Search for: Substances Patents Markush Search this structure as: As Drawn As Substructure
Cl Cl Zoom: 100%	Search



- 4. Draw a new structure or import an existing file.
- 5. Select whether to search the structure **As Drawn** or **As a Substructure** within a molecule.

 ■ ● <th>P P P P <th>Search for: Substances Patents Markush Search this structure as: As Drawn As Substructure</th></th>	P P P P <th>Search for: Substances Patents Markush Search this structure as: As Drawn As Substructure</th>	Search for: Substances Patents Markush Search this structure as: As Drawn As Substructure
	Molecular Formula: C ₂₀ H ₁₉ FN ₄ O ₂ (366.40)	Search

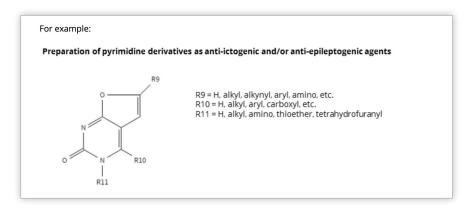
6. Click the **Search** button to view the results.

Image: Construction of the second	Search for: Substances Patents Markush Search this structure as: As Drawn (a) As Substructure
Molecular Formula: C ₂₀ H ₁₉ FN ₄ O ₂ (366.40)	Search

Note: To conduct a Markush search for patents that contain generic structures that match the structure query, select **Markush** under **Search for**.

Markush structure patent search

Use a Markush search to find patents that contain structures (including generic structures) matching the structure query.



The inventor may not have tested or prepared all members of the family, but can make a chemically plausible claim of equivalence via a Markush structure.

To conduct a Markush structure patent search:

1. Click the Patents tile.

CAS Scientific Patent Explorer	Select a search type to beg	gin
CAS Scientific Patent Explorer offers a unique combination of patent analysis and breadth of patent content with world-renowned CAS chemical capabilities and content to provide a powerful solution for patent professionals and scientists in an easy-to-use tool.	Substances Search by chemical structure, chemical name, CAS RN, etc.	Patents Search by keywords, claims, Patent Number, Assignee, etc.

2. Click the **Chemical** tab.

Simple Advanc	ed Chemical	
S All Databases	Start your search with a keyword, company name, patent number etc.	Q Search

3. Click Markush under Search for.

	The structure editor has been updated with a new look and feel. Learn	more		
PQ	□ ♀ ♀ □ ⇔ ♂ ₿ в ↔ ₹ ? Enter a CAS Registry Number, SMILES, or InChi		₽£	Search for:
/ /		c	H	Substances Patent: Mark
KR		0	s	Search this structure as:
		Ν	Ρ	As Drawn
Ð Ə		CI,	Si	As Substructure
1. ~		1	١.	
		١.		
		0	0	
¢¢,		0	0	
		0	C	
	Molecular Formula:			

- 4. Draw a new structure or import an existing file.
- 5. Select whether to search the structure **As Drawn** or **As a Substructure** within a molecule.

	The structure editor has been updated with a new look and feel. Learn	more		
	DPPDC * * BC * * Enter a CAS Registry Number, SMILES, or InChi		ъS	Search for:
Et		c o	H, S	Substances Patents Mark
R		N	P	As Drawn
O		ci,		As Substructure
Θ	N A A	~	₩.	$\underline{\qquad}$
~*	, , , , , , , , , , , , , , , , , , ,	N	EZ	
% €	0	0	0	
¢,	ő	0	0	
		0	\bigcirc	
	Molecular Formula: Formula is not available			

6. Click the **Search** button to view the results.

	The structure editor has been updated with a new look and feel. Learn r	nore	
2	D P P C S & & B C S C Enter a CAS Registry Number, SMILES, or InChl	∠	Search for:
			Substances Patents Marku Search this structure as: As Drawn (a) As Substructure
	Molecular Formula: Formula is not available		

Import a structure

Note: You may also import a .mol file from ChemDraw.

1. Click the **Import** icon.

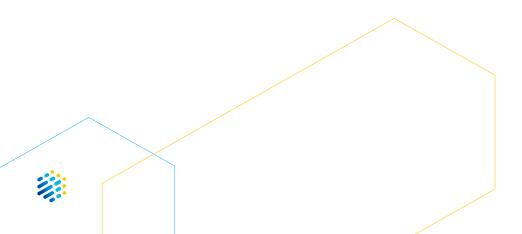
Structure Search	Text Search
🖻 🚹 🛡 🖥	

2. Click the **Choose File** button.

Upload Structure	۲
Only .cxf and .mol file are supported.	
Choose file	
Upload Cancel	

3. Select the structure file to import, and then click the **Open** button.

	a				
Name	Date modified	Туре	Size		- 1
Carprofen.cxf	5/13/2019 3:31 PM	CXF File	6 KB		
BrH.cxf	7/16/2018 2:59 PM	CXF File	7 KB		
Benoxaprofen.cxf	12/19/2019 2:54	CXF File	3 КВ		
2018_0006_Structure.cxf	4/3/2018 9:46 AM	CXF File	7 KB		_
File name: Benoxaprofen.cxf			~	Custom Files (*.cxf;*.mol)	~
				Open Cancel	



CAS SCIENTIFIC PATENT EXPLORER | 17

Substance results

Edit structure

Click Edit Query to go back to the drawing tool and edit the query structure.

Analyze results

Click Analyze to view data graphs based on the patents using the substances.

View ChemScape

Click **ChemScape** to view a three-dimensional, graphic model of the results in relation to the queried substance.

View patents

Click the **View Patents** button with no results selected to view all patent results associated with the result set.

View substance detail

Click the **CAS Registry Number** to view more information on the substance's detail page.

View substance information

Click the structure image to open the substance window.

Filter results

Select **filters** to refine the result set.

Select result

Check one or more result's box to select it for viewing relevant patents.

Save search

Click **Save Search** to save the substance search parameters that produced the result set and add an optional alarm to be notified of new results matching those parameters.

Receive alerts

Select the **Receive Alerts** box to be notified of new results matching your search. Alert results are accessed via the Saved & Alerts page.

View selected patents

Click View Relevant Patents to view the patents for the selected results only.







Patent results

Filter results

Select filters and enter keywords to refine the result set.

Change result view

Select Table or Flip-it.

Analyze results

Click **analyze** to view data graphs based on the patents.

Export results

Export results in .xls, .pdf, Word (.doc), .xml, or .csv format.

Change result ordering

Order results by application date, application number, publication date, or publication number.

Edit view settings

Customize your search results display.

Select result

Hover your mouse over the number and then check the box that appears to select a result.

Select result

Check the result box to select it for viewing relevant patents.

Save search

Click **Save Search** to save the search parameters that produced the result set and add an optional alarm to be notified of new results matching those parameters.

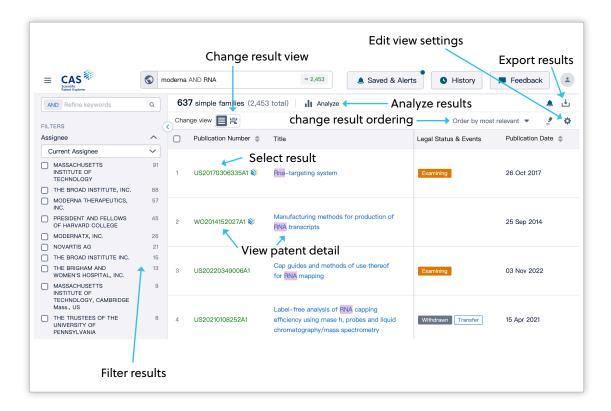
Receive alerts

Select the **Receive Alerts** box to be notified of new results matching your search. Alert results are accessed via the Saved & Alerts page.

View patent detail

Click View Relevant Patents to view the patents for the selected results only.





CAS substance content indicator

Look for a CAS icon highlighting patent records containing CAS-indexed substances. When your display shows patents ungrouped, look for the icon to see patent records that contain CAS substance content. When your display shows patents grouped by family, all members of the family have the indicator. To identify which records specifically have CAS substance content, use the Family tab within the patent detail.

	S mod	ierna AND RNA	≈ 2,453	▲ Saved & Alerts	0 H	listory	Feedback
AND Refine keywords	Q	637 simple families (2,45	i3 total) 📊 Analyze			٤ 魚	Save Search 🚽 Export
FILTERS		Change view 📃 🛱			(Order by mo	ost relevant 👻 🌛 🔅
Assignee		Publication Number 👙	Title	Legal Status & Events	Publicat	ion Date 🗧	Application Number
Current Assignee	~						
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	91	1 US20170306335	Rna-targeting system	Examining	26 Oct	2017	US15/632067
THE BROAD INSTITUTE, INC.	88	<u> </u>					
MODERNA THERAPEUTICS, INC.	57						
PRESIDENT AND FELLOWS OF HARVARD COLLEGE	45	2 WO2014152027 1	Manufacturing methods for production of RNA transcripts		25 Sep	2014	PCT/US2014/02683
MODERNATX, INC.	26	\sim					
	Star	t your search with a keyword, co	ompany name, patent number etc.	A Saved & Alerts	•	listory	Feedback
	•			Saved & Alerts	•	6 37	Patents
W02014152027A1 Manufa	cturing met		A transcripts	Saved & Alerts	● +	- 637 Sean	
W02014152027A1 Manufa Overview Dual View Ci	cturing met	thods for production of RN	A transcripts	Saved & Alerts		637 Sean 1 US	Patents ch Results
W02014152027A1 Manufar Overview Dual View Ci Abstract	cturing met	thods for production of RN	A transcripts ances Formulations Reactions	Alerts		e 637 Sean 1 US Rna	Patents ch Results izo170306351 (A1 (S)) -targeting system
W02014152027A1 Manufa Overview Dual View Ci Abstract Claims	ation] Title: M	thods for production of RN mily Concepts Subst anufacturing methods for proc	& transcripts ances Formulations Reactions duction of RNA transcripts			 637 Sean 1 US Rna 2 W 	Patents ch Results s20170306338 A1 📚
W02014152027A1 Manufa Overview Dual View Ci Abstract Claims [Transla Description Described	ation] Title: M	thods for production of RN imily Concepts Subst anufacturing methods for proc for production of RNA transcr	transcripts ances Formulations Reactions Juction of RNA transcripts lipts using a non-amplified. linearized DNA temp			 637 Sean 1 US Rna 2 W Man 	Patents ch Results :2017030633941 & -targeting system
W02014152027A1 Manufa Overview Dual View Ci Abstract Claims [Transla Description Described	ation] Title: M	thods for production of RN imily Concepts Subst anufacturing methods for proc for production of RNA transcr	& transcripts ances Formulations Reactions duction of RNA transcripts			2 Win prod	Patents ch Results 120170306330 A1 (1) Datageting system Datafsuzing inethods for function of RNA transcripts S20220349000A1
W02014152027A1 Manufad Overview Dual View Ci Abstract Claims Description Described reaction. E	ation] Title: M	thods for production of RN imily Concepts Subst anufacturing methods for proc for production of RNA transcr capping and oligo dT purificat	A transcripts ances Formulations Reactions duction of RNA transcripts lipts using a non-amplified, linearized DNA temp ion can also be included in the methods.	ate in an in vitro transcription		 637 Sean 1 US Rna 2 W Man proc 3 US Cap 	Patents hesuits 20170306.535 41 & -targeting system 02014152022 11 & utacturing methods for fuction of RNA transcripts
W02014152027A1 Manufat Overview Dual View Ci Abstract Claims Escribed Description Cescribed Transla	ation] ation] Title: M d are methods Enzymatic 5 '	chods for production of RN imily Concepts Subst anufacturing methods for proc for production of RNA transcr capping and oligo dT purificat is for production of RNA transcr	transcripts ances Formulations Reactions Juction of RNA transcripts lipts using a non-amplified. linearized DNA temp	ate in an in vitro transcription		2 WW Man proc 3 US Cap ther 4 US	Patents on Results -targeting system D201452022 At Carter ufacturing Institudes for function of RNA transcripts S02220340006At guides and methods of use

Markush results

Edit structure

Click **Edit Query** to go back to the drawing tool and edit the query structure.

View patents

Click the **View Patents** button with no results selected to view all patent results associated with the result set.

View patent detail

Click the patent number to view the associated patent's detail.

Filter results

Select a Patent Office to refine the result set.

Select result

Check one or more result's box to select it for viewing relevant patents.

View substance information

Click the structure image to open the substance window.

View selected patents

Click **View Relevant Patents** to view the patents for the selected results only.

		Edit Query Cdit	t structure	▲ Saved & Alerts	History Feedback	
← Return to Search > Searched a Structure						
FILTERS	3	2 Structures in Total			🔔 Save Search 🔄 View Patents	
Patent Office European Patent Organization 	1		w patent detail		1	
World Intellectual Property Organization	1		Patent claim 1		View patents	
	Ì		541,542,544: opt. substd.			
		🗆 2 🦛 Select result				
		EP0260057A2	Patent claim 13			
Filter res	ults		4	View substance information		

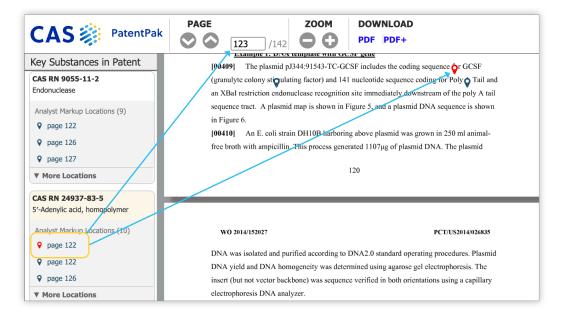
Utilize CAS PatentPak™

Navigate to a patent and download the PDF or PDF+ version of the full-text patent using our CAS PatentPak integration.

On the Dual View page for a patent with CAS PatentPak content, the best content is embedded to the right of the abstract and claims.

E CAS	pany name, patent number etc.	Saved & Alerts • • History = Feedback ±				
W02014152027A1 Manufacturing methods for production of RNA transcripts						
Overview Dual View Citation Family Concepts Substan	ices Formulations React	ions 🖳				
Abstract	CAS 🍀 PatentPak	PAGE ZOOM DOWNLOAD DOWNLOAD PDF PDF+				
Described are methods for production of RNA transcripts using a non- amplified. linearized DNA tempate in an in vitro transcription reaction. Enzymatic capping and oligo dT purification can also be included in the methods.	Key Substances in Patent CAS RN 9055-11-2 Endomuclease Analyst Markup Locations (9) 9 page 126	(13) NTERNATIONAL APPLICATION PORTSHED (NDR/ HIE PATISTIC COOPERATION HERATY (PCT) (19) World Randfordal Pogersy International Nonesy (14) International Publication Date: (15) International Publication Date: (15) International Publication Date: (15) International Publication Date: (16) International Publication Date: (17) International Publication Date: (18) International Publication Date: (19) International Publication Date: (10) Inte				
CLAIMS 1. A method for producing a composition comprising an R A transcript for a gene of interest, the method comprising: obtaining a sample comprising a linear, non-amplified DNA template, the DNA template comprising an RNA	Ø page 127 (3) Instrumental Parent Challfordine (20 P M3 (2006)) (3) Instrumental Parent Challfordine Ψ More Locations (2) P M3 (2006) (2) P M3 (2006) (3) Instrumental Parent Challfordine (2) P M3 (2006) (2) P M3 (2006) (2) P M3 (2006) (3) Instrumental Parent Challfordine (2) Instrumental Parent Challfordine (2) Instrumental Parent Challfordine (3) Instrumental Parent Challfordine (2) Instrumental Parent Challfordine (3) Instrumental Parent Challfordine (4) Parent Instrument (2) Instrumental Parent Challfordine (3) Instrumental Parent Challfordine (3) Instrumental Parent Challfordine (2) Instrumental Parent Challfordine (3) Instrumental Parent Challfordine (3) Instrumental Parent Challfordine (2) Instrumental Parent Challfordine (3) Instrumental Parent Challfordine (3) Instrumental Parent Challfordine (2) Instrumental Parent Challfordine (3) Instrumental Parent Challfordine (3) Instrumental Parent Challfordine (2) Instrumental Parent Challfor	C12P 1943 (20060) C12P 1959 (20060) C12P 1943 (20060)	^ ~			
polymerase promoter sequence operatively linked to a target sequence coding for the gene of interest; contacting the sample with a RNA polymerase and ribonucleotides to form a reaction; maintaining the		(2) International Wing Date: 1) Much 2014 (2130) 23041 DDL DDL <td>4</td>	4			
reaction under a set of conditions sufficient for vitro transcription to occur, thereby producing the composition comprising the RNA transcript. 2. The method of claim 4, wherein at least 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, or at least 95% of the RNA transcript in the composition is full-	 page 122 page 122 page 126 	 Appleour MODREAN HURANCEENS, INC. [US33]: 30 February Sparse, Londridg, MA(19); 40 Objasted States ratios observice industio, ARPO 108, GL (US3) Coloning Sparse, Londradg, MA(19); 40 Coloning Sparse, Londradg, MA(19); 41 Coloning Sparse, Londradg, MA(19); 41 Feld, Martin Tarreptor, Martin, State 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,				
length RNA transcript . 3. The method of claim 2, wherein the percent full length RNA transcript is determined using reverse phase HPLC and measured by peak area of full	More Locations CAS RN 81295-42-3 Restriction endodeoxyribonuclease	Tending's Sparre, Canhidge, MA (21): 403, AUS RNA, Grand Moder Integration, Int. 20 Tending Sparre, Canhidge MA (21): 404, AUX, AUX, AUX, AUX, AUX, AUX, AUX, AUX				
length relative to total peak area. 4. The method of any of claims 1-3, wherein treatment of the composition with DNase is excluded. 5. The method of any of claims 1-4, wherein the DNA template is separated	XbaI Analyst Markup Locations (1)	Ge The MANUFACTURING METHODS FOR PRODUCTION OF INA TRANSCRPTS Paramic DNA transmission (7) Anternation (7) An				
from the composition via affinity based or ion exchange chromatography. A The method of any of claims 1-5, wherein a nolymerase chain reaction	CAS RN 9014-24-8	In Vito Transcription				
Copyright © 2023 American Chemical Society. All Rights Rese	erved. 京ICP备13047075号-3	Help Contact Us Legal				

On the CAS PatentPak Viewer page, clicking the location link within the substance panel will direct you to the specified page/location of the substance within the patent. Similarly, when clicking the location marker in the marked patent, the key substance panel scrolls to the substance and highlights it.



CAS is a leader in scientific information solutions, partnering with innovators around the world to accelerate scientific breakthroughs. CAS employs over 1,400 experts who curate, connect, and analyze scientific knowledge to reveal unseen connections. For over 100 years, scientists, patent professionals, and business leaders have relied on CAS solutions and expertise to provide the hindsight, insight, and foresight they need so they can build upon the learnings of the past to discover a better future. CAS is a division of the American Chemical Society.

Connect with us at cas.org

For more information about CAS Scientific Patent Explorer, please contact the CAS Customer Center: help@cas.org



CAS is a leader in scientific information solutions, partnering with innovators around the world to accelerate scientific breakthroughs. CAS employs over 1,400 experts who curate, connect, and analyze scientific knowledge to reveal unseen connections. For over 100 years, scientists, patent professionals, and business leaders have relied on CAS solutions and expertise to provide the hindsight, insight, and foresight they need so they can build upon the learnings of the past to discover a better future. CAS is a division of the American Chemical Society.

Connect with us at cas.org

For more information about CAS Scientific Patent Explorer, please contact the CAS Customer Center: help@cas.org



010.62508026/7 | china@acs-i.org

© 2023 American Chemical Society. All rights reserved. SPEGENENGREF100239230427-A4-CN





