

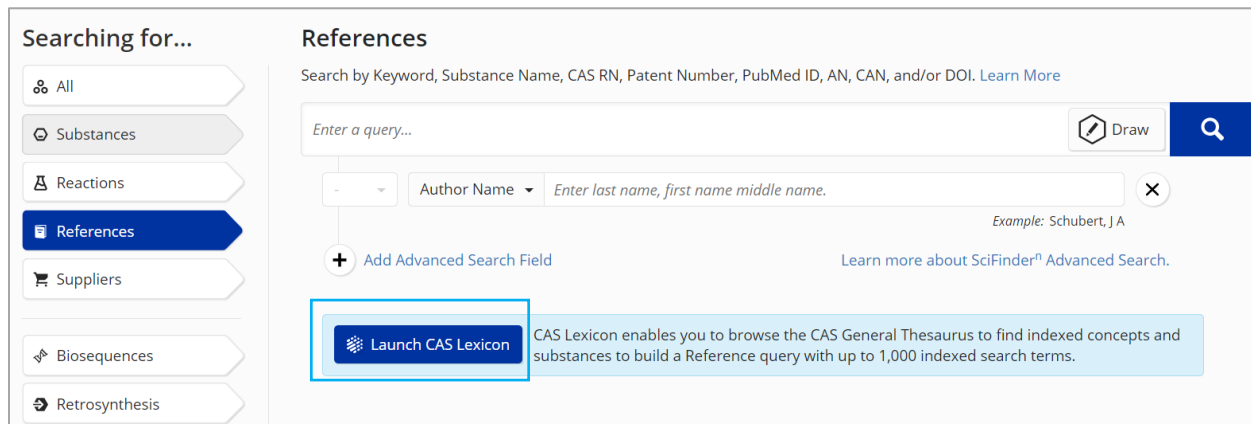
## 2022.7 CAS SciFinder<sup>n</sup> 新增功能与使用技巧

- ✓ 标亮显示来自 CAS Lexicon 的检索词(P1-3)
- ✓ 筛选序列长度(P4-6)
- ✓ 显示实验属性中混合溶剂的比例 (P7-8)

# CAS SciFinder<sup>n</sup> 使用技巧|标亮显示来自 CAS Lexicon 的检索词

选择 CAS SciFinder<sup>n</sup> 中 References 选项后，点击 Launch CAS Lexicon，可以在 CAS 科学家创建的词库层级中浏览概念词（Concept）和物质。在检索的文献结果中，命中的概念词（Concept）和物质会被标亮显示。

1. 在 CAS SciFinder<sup>n</sup> 的 References 检索页面，点击页面中间的 Launch CAS Lexicon 打开 CAS 词库，选择目标词语进行文献检索。



The screenshot shows the 'References' search page in CAS SciFinder. On the left, a sidebar lists search categories: All, Substances, Reactions, References (highlighted), Suppliers, Biosequences, and Retrosynthesis. The main area is titled 'References' and includes a search bar with the placeholder 'Enter a query...'. Below the search bar, there is an 'Author Name' dropdown menu with the text 'Enter last name, first name middle name.' and an example 'Schubert, J A'. A 'Launch CAS Lexicon' button is highlighted with a blue box, and a tooltip explains that CAS Lexicon enables browsing the CAS General Thesaurus to find indexed concepts and substances for building a Reference query with up to 1,000 indexed search terms.

2. 在 CAS 词库中输入感兴趣的词，例如 vaccines。并在层级中选择同义词、上下位词或相关词，然后点击 Add Terms 将目标词语加入右侧的 Query 中。点击右下角放大镜开始检索。

**Search CAS Lexicon**

Vaccines  Your Query  
You may include up to 1,000 terms in a search.

**Preferred Term**

Vaccines  
This will search synonyms: Vaccin; **Vaccine**; Vaccins

**Broader Terms (1)**

Biopharmaceuticals

**Narrower Terms (23)**

ACW 135XY  
 ACW 135Y

Select a boolean operator

Vaccines x  
Vaccines - Narrower Terms (23 Concepts) x  
Biopharmaceuticals x

3. 获得使用来自 CAS 词库的词语进行检索的文献结果，点击文献标题可查看文献详情。文献详情中命中的 Concepts(概念词)和物质会被标亮显示。

**References search for 25 CAS Lexicon Terms**

Filter Behavior

**Document Type**

Journal (108K)  
 Patent (54K)  
 Review (32K)  
 Biography (22)  
 Book (392)

**Substance Role**

Biological Study (2)  
 Uses (2)  
 Analytical Study (1)

**Language**

English (131K)

169,155 Results

1

**Vaccine formulations comprising preservative system**  
By: Sangareddy, Veerapandu; Burki, Rajendar; Sriraman, Rajan; Matur, Ramesh Venkat; Mantena, Narender Dev; Datla, Mahima India, IN201841027285 A 2020-01-24 | Language: English, Database: CAplus

The present invention relates to vaccine formulations comprising preservative systems. More particularly, the present invention relates to preservative systems for vaccine formulations which is free of thiomersal, and comprising 2-phenoxyethanol and at least one other preservative selected from m-cresol, benzyl alc., phenol and benzoic acid.

2

**Vaccine formulations comprising preservative system**  
By: Sangareddy, Veerapandu; Burki, Rajendar; Sriraman, Rajan; Matur, Ramesh Venkat; Mantena, Narender Dev; Datla, Mahima World Intellectual Property Organization, WO2020021416 A1 2020-01-30 | Language: English, Database: CAplus

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Return to Results Prev (1 of 169,155) Next

## Vaccine formulations comprising preservative system

Substances (6) Reactions (0) Citing (0) Citation Map Download Email Save

**PATENT**

**Patent Number**  
IN201841027285

**Publication Date**  
2020-01-24

**Application Number**  
IN2018-41027285

**Application Date**  
2018-07-21

**Kind Code**  
A

**Assignee**  
Biological E Limited, India

By: Sangareddy, Veerapandu; Burki, Rajendar; Sriraman, Rajan; Matur, Ramesh Venkat; Mantena, Narender Dev; Datla, Mahima

The present invention relates to vaccine formulations comprising preservative systems. More particularly, the present invention relates to preservative systems for vaccine formulations which is free of thiomersal, and comprising 2-phenoxyethanol and at least one other preservative selected from m-cresol, benzyl alc., phenol and benzoic acid.

**Keywords:** vaccine preservative

[PatentPak Viewer](#) [Get Prior Art Analysis](#) [Full Text](#)

**Patent Family**

Patent	Language	Kind Code	PatentPak Options	Publication Date	Application Number	Application Date
IN201841027285	English	A	<a href="#">PDF</a>   <a href="#">PDF+</a>   <a href="#">Viewer</a>	2020-01-24	IN2018-41027285	2018-07-21
WO2020021416	English	A1	<a href="#">PDF</a>   <a href="#">PDF+</a>   <a href="#">Viewer</a>	2020-01-30	WO2019-IB56202	2019-07-19
CN112469435	Chinese	A	<a href="#">PDF</a>	2021-03-09	CN2019-80048765	2019-07-19

IPC Data

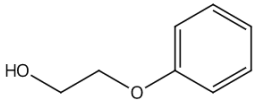
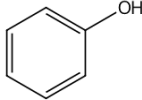
Concepts

<b>Antigens</b> Role: Therapeutic Use	<b>Hepatitis B virus proteins</b> Role: Biological Study, Unclassified; Therapeutic Use
<b>Bordetella pertussis</b> Modifier: antigens	<b>Hepatitis C antigens</b> Role: Biological Study, Unclassified; Therapeutic Use
<b>Cholera</b> Modifier: toxoid	<b>Japanese encephalitis virus</b> Modifier: antigens
<b>Clostridium tetani</b> Modifier: antigens	<b>Neisseria meningitidis</b> Modifier: antigens
<b>Combination vaccine DTaP-Hib</b>	<b>Pertussis toxoids</b> Role: Therapeutic Use
<b>Combination vaccine DTWP-HepB</b> Role: Biological Study, Unclassified; Therapeutic Use	<b>Pharmaceutical carriers</b>
<b>Combination vaccine DTWP-IPV</b> Role: Biological Study, Unclassified; Therapeutic Use	<b>Pneumococcal vaccines</b>
<b>Combination vaccines</b>	<b>Preservatives</b>

<b>Corynebacterium diphtheriae</b> Modifier: antigens	<b>Proteins, conjugates</b> Role: Therapeutic Use
<b>Diphtheria toxoids</b> Role: Therapeutic Use	<b>Salmonella enterica paratyphi</b> Modifier: antigens
<b>Enterovirus C</b> Modifier: antigens	<b>Salmonella typhi</b> Modifier: antigens
<b>Haemophilus influenzae</b> Modifier: antigens	<b>Streptococcus pneumoniae</b> Modifier: antigens
<b>Hepatitis A virus</b> Modifier: antigens	<b>Tetanus toxoids</b> Modifier: antigens
	<b>Vaccines</b>

Substances

Substances (6)

2375119-26-7 Image Not Available <b>Unspecified</b> <b>ACW 135Y</b> Role: Biological Study, Unclassified, Therapeutic Use, Biological Study, Uses	122-99-6  <b>C<sub>8</sub>H<sub>10</sub>O<sub>2</sub></b> Phenoxyethanol <b>PatentPak</b> Role: Therapeutic Use, Biological Study, Uses	108-95-2  <b>C<sub>6</sub>H<sub>6</sub>O</b> Phenol <b>PatentPak</b> Role: Therapeutic Use, Biological Study, Uses
108-39-4	100-51-6	65-85-0

# CAS SciFinder<sup>n</sup> 使用技巧|筛选序列长度

在 CAS SciFinder<sup>n</sup> 的 Biosequences 检索结果中，可以浏览目标序列的长度分布区间，也可以筛选特定长度或长度范围内的目标序列。

1. 在 CAS SciFinder<sup>n</sup> 的 Biosequences 检索结果页面，通过左侧 Filter by 选项下的 Sequence Length 可以查看目标序列的长度分布区间。如果检索的是肽或蛋白，序列结果中 Sequence Length 下呈现的是目标序列中氨基酸的数量分布（此例中显示的是 447-1367 个氨基酸）。

The screenshot displays the 'Biosequences search for your query' interface. On the left, the 'Filter by' section is expanded to show 'Sequence Length' with a range of 447 to 1367. The main search results area shows 127 results, sorted by E-Value. The first result (Seq 1) is highlighted, showing an alignment with 100% identity between a query and a subject, both 449 amino acids long. Below the alignment, the 'Alignment Data' section shows the BLAST score (3398) and E-value (0), along with the sequence alignment for the query (Q) and subject (S) from position 1 to 210. The second result (Seq 2) is partially visible, showing a subject of 468 amino acids.

如果检索的是 DNA 或 RNA，序列结果中 Sequence Length 下呈现的是目标序列中核苷酸碱基数量的分布（此例中呈现的是 48-51 个碱基）。

The screenshot shows the Biosequences search interface. On the left, the 'BLAST Search Details' panel lists parameters: Sequence Type: Nucleotide, Search Within: Nucleotides, BLAST Algorithm: BLASTn, NCBI Included: Yes, Alignment Identity: 80%, Query Coverage: 90%, E-Value: 10, Match with Gaps?: No, Gap Costs: Existence 5 Extension 2, Word Size: 11. Below this is the 'Bioscape Analysis' section with a 'Create Bioscape Analysis' button. The 'Filter by' section includes dropdowns for E-Value, Query Coverage %, Subject Coverage %, and Alignment Identity %, and a 'Sequence Length' filter which is highlighted with a blue box. The 'Sequence Length' filter has a slider and input fields for '48' and '51', with 'Apply' and 'Reset Filters' buttons.

The main search results area shows 'Query Details' for the sequence CTGAGCTGGCTGCTGAGACTGCTGAACACCTACATCTGCAACGTGAACCAC. It displays '3 Results' sorted by E-Value. The first result (1) shows a 100% alignment identity between a query of length 51 and a subject of length 51, with 51 matches and 0 mismatches. The second result (2) shows an 86.96% alignment identity between a query of length 51 and a subject of length 49, with 40 matches and 6 mismatches. The alignment data for the second result is shown below:

```
Alignment Data
BLAST Score: 102
E-Value: 3.50452e-18

Q   1   CTGAGCTGGC TGCTGAGACT GCTGAACACC TACATCTGCA ACGTGAACCA C 51
      |||
S   1   CTGAGCTGGC TGCTGAGACT GCTGAACACC TACATCTGCA ACGTGAACCA C 51
```

2. 在 Sequence Length 下的输入框中，输入感兴趣的目标序列长度或长度区间，点击 Apply，即可获得精炼后的目标序列。例如，此例中限定目标序列长度为 449，精炼结果中的目标序列都含有 449 个氨基酸。



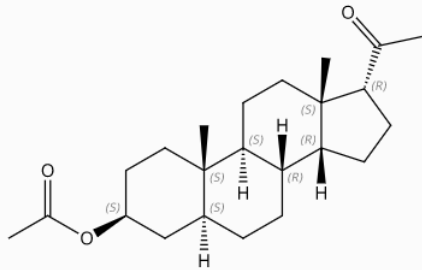
## CAS SciFinder<sup>n</sup> 使用技巧|显示实验属性中混合溶剂的比例

在 CAS SciFinder<sup>n</sup> 物质属性（熔点、核磁等）信息中，如有涉及混合溶剂的条件，则增加了混合溶剂的用量比例信息。

1. 在物质的熔点测试条件中，如有涉及混合溶剂（例如此例中的石油醚和苯），则会提供各种溶剂的用量比例。

**CAS Registry Number: 10002-82-1**

References (11)   Reaction (1)   Suppliers (0)



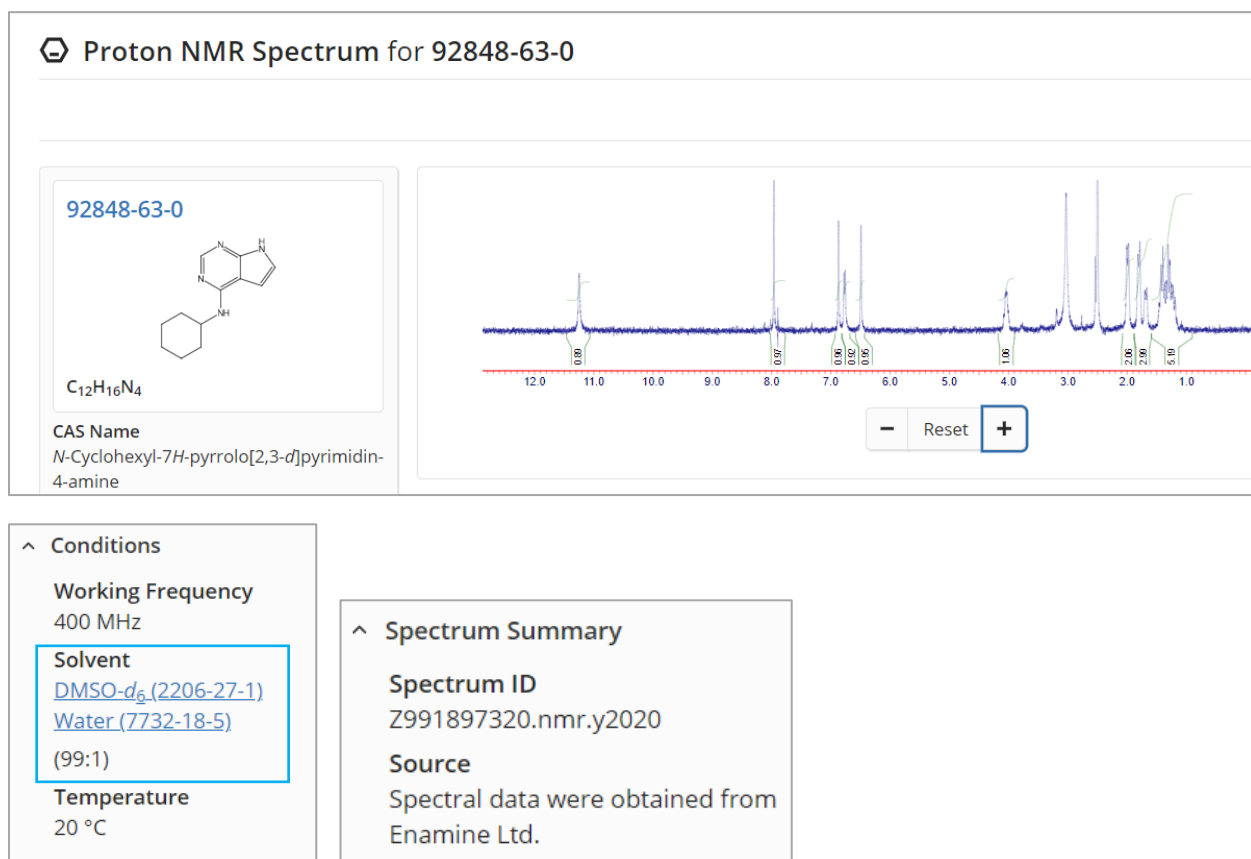
Absolute stereochemistry shown

**C<sub>23</sub>H<sub>36</sub>O<sub>3</sub>**  
Pregnan-20-one, 3-(acetyloxy)-, (3β,5α,14β,17α)- (9CI)

Key Physical Properties	Value	Condition
Molecular Weight	360.53	-
Melting Point (Experimental)	95-100 °C	Solvent: Ligroine; Benzene (4:1)
Boiling Point (Predicted)	443.7±18.0 °C	Press: 760 Torr
Density (Predicted)	1.07±0.1 g/cm <sup>3</sup>	Temp: 20 °C; Press: 760 Torr

Experimental Properties

2. 在物质的核磁谱图测试条件中，如有涉及混合溶剂（例如此例中的 DMSO-d6 和水），则会提供各种溶剂的用量比例。



^ **Conditions**

**Working Frequency**  
400 MHz

**Solvent**  
[DMSO-\*d\*<sub>6</sub> \(2206-27-1\)](#)  
[Water \(7732-18-5\)](#)  
(99:1)

**Temperature**  
20 °C

^ **Spectrum Summary**

**Spectrum ID**  
Z991897320.nmr.y2020

**Source**  
Spectral data were obtained from Enamine Ltd.