

Product datasheet

Resiniferatoxin ab120339

1 References

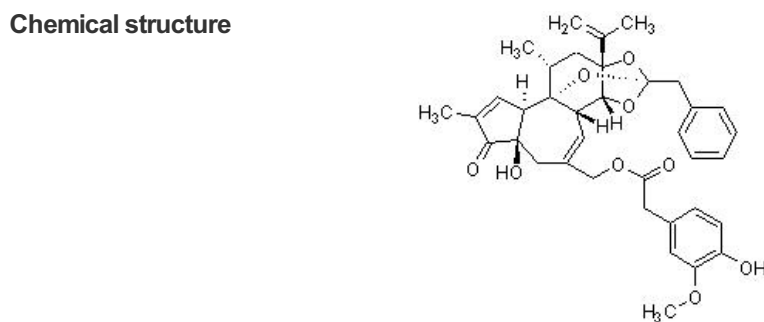
Overview

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| Product name | Resiniferatoxin |
| Description | Ultrapotent TRPV1 agonist |
| Biological description | Highly potent capsaicin analogue that acts as an agonist at TRPV1 channels (vanilloid receptor) ($K_i = 43 \text{ pM}$). |
| Purity | > 98% |

Properties

| | |
|----------------------|---|
| Chemical name | [(2 <i>S</i> ,3 <i>aR</i> ,3 <i>bS</i> ,6 <i>aR</i> ,9 <i>aR</i> ,9 <i>bR</i> ,10 <i>R</i> ,11 <i>aR</i>)- 3 <i>a</i> ,3 <i>b</i> ,6,6 <i>a</i> ,9 <i>a</i> ,10,11,11 <i>a</i> -Octahydro-6 <i>a</i> -hydroxy-8,10-dimethyl-11 <i>a</i> -(1-methylethenyl)-7-oxo-2-(phenylmethyl)-7 <i>H</i> -2,9 <i>b</i> -epoxyazuleno[5,4- <i>e</i>]-1,3-benzodioxol-5-yl]-4-hydroxy-3-methoxymethylbenzeneacetate |
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| Molecular weight | 628.72 |
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|--------------------------|-------------------|
| Molecular formula | $C_{37}H_{40}O_9$ |
|--------------------------|-------------------|

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|-------------------|------------|
| CAS Number | 57444-62-9 |
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|---------------------------|---------|
| PubChem identifier | 5702546 |
|---------------------------|---------|

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| Storage instructions | Store at -20°C . Store under desiccating conditions. The product can be stored for up to 12 months. |
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| Solubility overview | Soluble in DMSO to 100 mM |
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| Handling | Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C . Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. |
|-----------------|---|

Toxic, refer to SDS for further information.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES

Oc1ccc(cc1OC)CC(=O)OCC3=C[C@H]5[C@H]6O[C@@]2(O[C@]6(C[C@@H](C)[C@]5(O2)[C@@H]4C=C(C)C(=O)[C@@]4(O)C3)C(=C)C)Cc7ccccc7

Source

Euphorbia resinifera

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