

Product Name: 6'-Iodoresiniferatoxin

Catalog No.: 1556

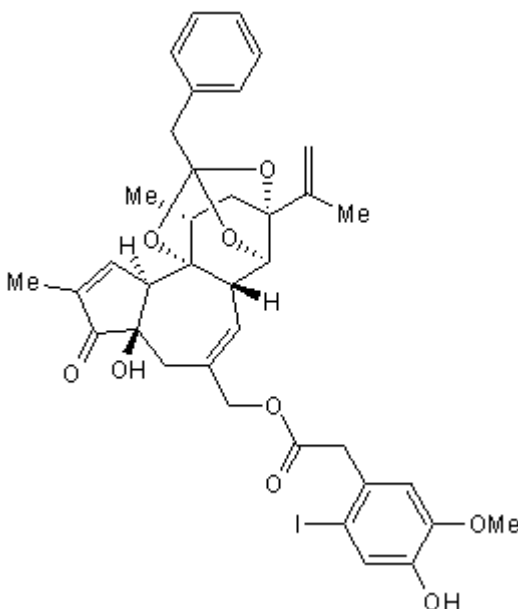
Batch No.: 1

CAS Number: 335151-55-8

IUPAC Name: [(2*S*,3*aR*,3*bS*,6*aR*,9*aR*,9*bR*,10*R*,11*aR*)-3*a*,3*b*,6,6*a*,9*a*,10,11,11*a*-octahydro-6*a*-hydroxy-8,10-dimethyl-11*a*-(1-methylethenyl)-7-oxo-2-(phenylmethyl)-7*H*-2,9*b*-epoxyazuleno[5,4-*e*]-1,3-benzodioxol-5-yl]-4-hydroxy-2-iodo-5-methoxy-benzeneacetic acid methyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₇ H ₃₉ IO ₉
Batch Molecular Weight:	754.6
Physical Appearance:	White lyophilised solid
Solubility:	Soluble in ethanol Soluble in DMSO
Storage:	Desiccate at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows >99.4% purity
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

High affinity TRPV1 (VR1) vanilloid receptor partial agonist ($K_i = 0.71$ nM; $EC_{50} = 130$ nM at human VR1). Displays partial agonism at human VR1 and full agonism at rat VR1.

Physical and Chemical Properties:

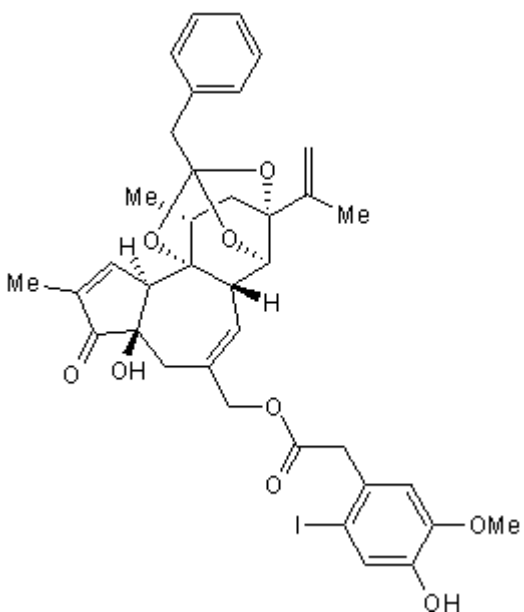
Batch Molecular Formula: $C_{37}H_{39}IO_9$

Batch Molecular Weight: 754.6

Physical Appearance: White lyophilised solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

Soluble in ethanol

Soluble in DMSO

This product is supplied in a sealed glass ampoule as a lyophilized solid, please refer to the Tocris catalogue for opening instructions. lyophilized solids can be hard to visualize therefore solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

McDonnell et al (2002) Synthesis and in vitro evaluation of a novel iodinated resiniferatoxin derivative that is an agonist at the human vanilloid VR1 receptor. *Bioorg.Med.Chem.Lett.* **12** 1189. PMID: 11934585.

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