

Certificate of Analysis

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Product Name: 5'-Iodoresiniferatoxin

Catalog No.: 1362

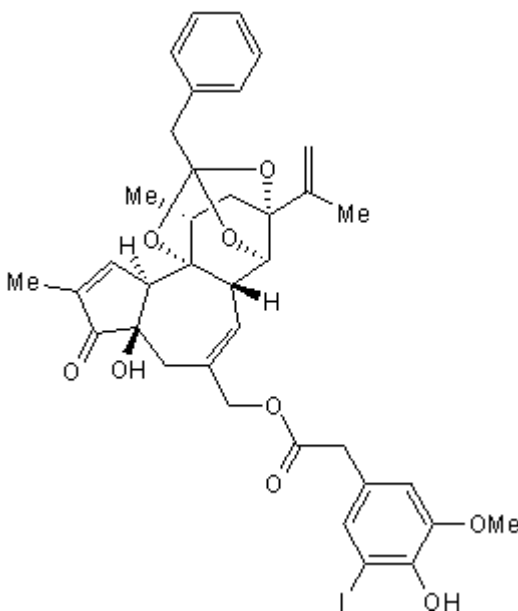
Batch No.: 12

CAS Number: 535974-91-5

IUPAC Name: 6,7-Deepoxy-6,7-didehydro-5-deoxy-21-dephenyl-21-(phenylmethyl)-daphnetoxin,20-(4-hydroxy-5-iodo-3-methoxybenzeneacetate)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₇ H ₃₉ I O ₉
Batch Molecular Weight:	754.6
Physical Appearance:	White solid
Solubility:	Soluble in DMSO ethanol to 100 mM
Storage:	Desiccate at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.6% purity
Mass Spectrum:	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent and silent vanilloid receptor antagonist, 40-fold more potent than capsaizepine (Cat. No. 0464). Binds to TRPV1 (VR1) receptors expressed in HEK293 cells with a K_i of 5.8 nM.

Physical and Chemical Properties:

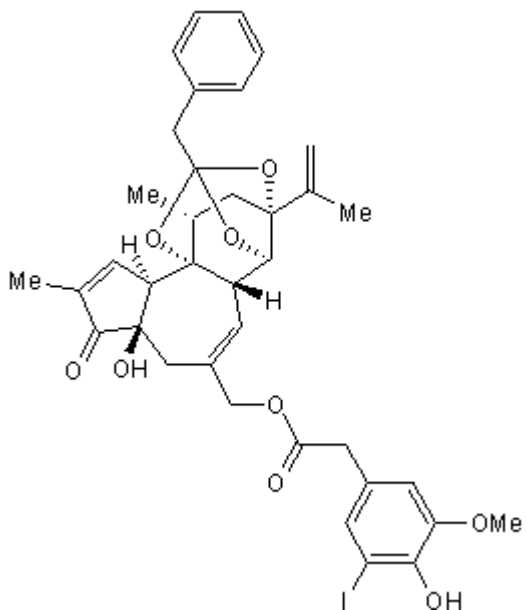
Batch Molecular Formula: $C_{37}H_{39}IO_9$

Batch Molecular Weight: 754.6

Physical Appearance: White 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 DMSO
ethanol to 100 mM

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:

Marinelli et al (2002) Capsaicin activation of glutamatergic synaptic transmission in the rat locus coeruleus *in vitro*. *J.Physiol.* **543** 531. PMID: 12205187.

Seabrook et al (2001) Properties of iodo-resiniferatoxin - a high affinity VR1 vanilloid receptor antagonist. *Soc.Neurosci.Abstr.* 925.9.

Wahl et al (2001) Iodo-resiniferatoxin, a new potent vanilloid receptor antagonist. *Mol.Pharmacol.* **59** 9. PMID: 11125018.

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bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956