Product Name: Resiniferatoxin
Catalog No.: 1137
Batch No.: 12
CAS Number: 57444-62-9
IUPAC Name: 4-Hydroxy-3-methoxy-[(2S,3aR,3bS,6aR,9aR,9bR,10R,11aR) -3a,3b,6,6a,9a,10,11,11a-octahydro-6a-hydroxy-8,10-dimethyl-11a-(1-methylethenyl)-7-oxo-2-(phenylmethyl)-7H-2,9b-epoxyazulenof5,4-e] -1,3-benzodioxol-5-yl]benzeneacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( C_{37}H_{40}O_{9} \)
   Batch Molecular Weight: 628.72
   Physical Appearance: White solid
   Solubility: DMSO to 100 mM
   ethanol to 50 mM
   Storage: Desiccate at -20°C
   Batch Molecular Structure:

2. ANALYTICAL DATA

   TLC: \( R_f = 0.48 \) (Acetone:Hexane [50:50])
   HPLC: Shows 99.7% purity
Product Name: Resiniferatoxin
Catalog No.: 1137  Batch No.: 12

CAS Number: 57444-62-9
IUPAC Name: 4-Hydroxy-3-methoxy-[(2S,3aR,3bS,6aR,9aR,9bR,10R,11aR) -3a,3b,6,6a,9a,10,11,11a-octahydro-6a-hydroxy-8,10-dimethyl-11a-(1-methylethenyl)-7-oxo-2-(phenylmethyl)-7H-2,9b-epoxyazuleno[5,4-e] -1,3-benzodioxol-5-yl]benzeneacetate

Description:
Potent analog of capsaicin that is an agonist at vanilloid receptors ($K_c = 43$ pM). Like capsaicin, it acts as a selective modulator of primary afferent neurons.

Physical and Chemical Properties:
Batch Molecular Formula: $C_{37}H_{40}O_9$
Batch Molecular Weight: 628.72
Physical Appearance: White solid
Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Desiccate at -20°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 50 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 aliquotted 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: