

Product Name: Ralfinamide mesylate

Catalog No.: 4029

Batch No.: 1

CAS Number: 202825-45-4

IUPAC Name: (2S)-2-[[[4-[(2-Fluorophenyl)methoxy]phenyl]methyl]amino]-propanamide methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₉FN₂O₂.CH₃SO₃H

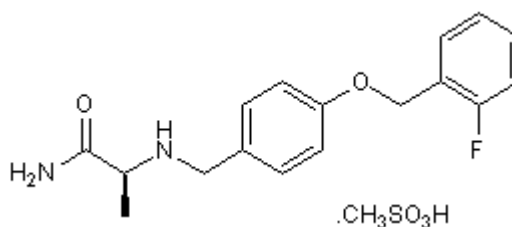
Batch Molecular Weight: 398.45

Physical Appearance: White solid

Solubility: water to 25 mM
DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

Chiral HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +10.3 (Concentration = 1, Solvent = Acetic acid)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.26	5.82	7.03
Found	54.41	5.83	7.07

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

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IUPAC Name: (2S)-2-[[[4-[(2-Fluorophenyl)methoxy]phenyl]methyl]amino]-propanamide methanesulfonate

Description:

Sodium channel blocker. Suppresses tetrodotoxin (TTX)-resistant Na⁺ currents approximately twice as selectively as TTX-sensitive currents. Antinociceptive; displays analgesic effects in animal models of inflammatory and neuropathic pain.

Physical and Chemical Properties:

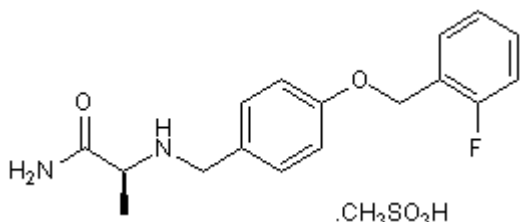
Batch Molecular Formula: C₁₇H₁₉FN₂O₂.CH₃SO₃H

Batch Molecular Weight: 398.45

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 25 mM
DMSO to 100 mM

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:

Veneroni et al (2003) Anti-allodynic effect of NW-1029, a novel Na⁺ channel blocker, in experimental animal models of inflammatory and neuropathic pain. *Pain* **102** 17. PMID: 12620593.

Yamane et al (2007) Effects of ralfinamide, a Na⁺ channel blocker, on firing properties of nociceptive dorsal root ganglion neurons of adult rats. *Exp.Neurol.* **208** 63. PMID: 17707373.

Zhang et al (2008) Ralfinamide administered orally before hindpaw neurectomy or postoperatively provided long-lasting suppression of spontaneous neuropathic pain-related behavior in the rat. *Pain* **139** 293. PMID: 18583049.

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