

Product Name: SR 142948

Catalog No.: 2309

Batch No.: 3

CAS Number: 184162-64-9

IUPAC Name: 2-[[[5-(2,6-Dimethoxyphenyl)-1-[4-[[[3-(dimethylamino)propyl]methylamino]carbonyl]-2-(1-methylethyl)phenyl]-1H-pyrazol-3-yl]carbonyl]amino]-tricyclo[3.3.1.1^{3,7}]decane-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₉H₅₁N₅O₆·3.75H₂O

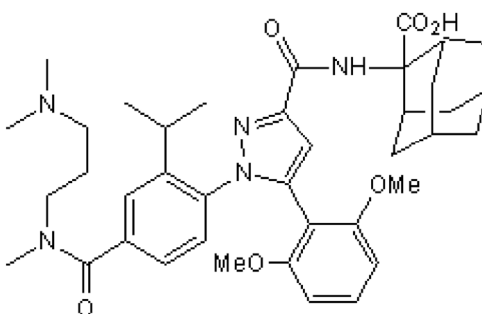
Batch Molecular Weight: 753.42

Physical Appearance: Off White solid

Solubility: DMSO to 75 mM
water to 25 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.35 (Dichloromethane:Methanol [80:20])

HPLC: Shows 98% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	62.17	7.83	9.3
Found	62.09	7.47	9.44

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Description:

SR 142948 is a potent non-peptide neurotensin (NT) receptor antagonist that binds with high affinity (IC_{50} = 0.32 - 3.96 nM; K_i < 10 nM). Attenuates amphetamine-induced hyperactivity and is orally active in vivo.

Physical and Chemical Properties:

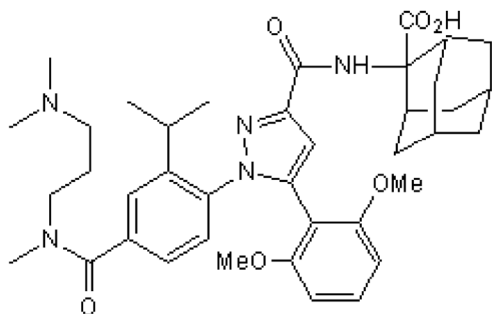
Batch Molecular Formula: $C_{39}H_{51}N_5O_6 \cdot 3.75H_2O$

Batch Molecular Weight: 753.42

Physical Appearance: Off White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 75 mM
water to 25 mM

When purchased as a 1mg unit, this product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Marie-Claire et al (2008) Effects of the selective neurotensin antagonist SR 142948A on 3,4-methylenedioxymethamphetamine-induced behaviours in mice. *Neuropharmacology* **54** 1107. PMID: 18410947.

Quere et al (1998) X-ray structural characterization of SR 142948, a novel potent synthetic neurotensin receptor antagonist. *Bioorg.Med.Chem.Lett.* **8** 653. PMID: 9871577.

Gully et al (1997) Biochemical and pharmacological activities of SR 142948A, a new potent neurotensin receptor antagonist. *J.Pharmacol.Exp.Ther.* **280** 802. PMID: 9023294.

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