

Product Name: SR 48692

Catalog No.: 3721

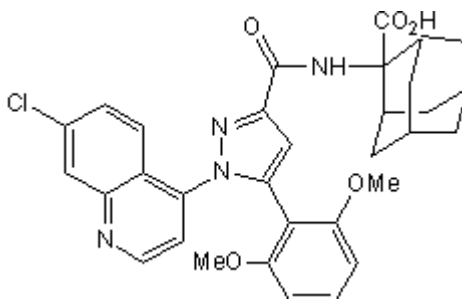
Batch No.: 1

CAS Number: 146362-70-1

IUPAC Name: 2-[[[1-(7-Chloro-4-quinolinyl)-5-(2,6-dimethoxyphenyl)-1*H*-pyrazol-3-yl]carbonyl]amino]-tricyclo[3.3.1.1^{3,7}]decane-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₂H₃₁ClN₄O₅
Batch Molecular Weight: 588.87
Physical Appearance: White solid
Solubility: DMSO to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.46 (Dichloromethane:Methanol [10:1])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.39	5.61	8.42
Found	61.44	5.57	8.68

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

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Description:

Neurotensin antagonist; selective for NTS₁ over NTS₂ (apparent affinity, K_e, is 36 nM for NTS₁). Competitively inhibits binding of [¹²⁵I]-neurotensin to HT29 and N1E115 cell membranes (IC₅₀ values are 15.3 and 20.4 nM respectively). Orally bioavailable.

Physical and Chemical Properties:

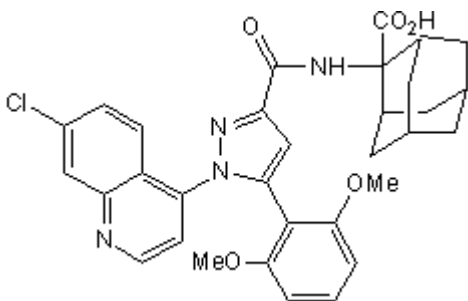
Batch Molecular Formula: C₃₂H₃₁ClN₄O₅.

Batch Molecular Weight: 588.87

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 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:

Thomas et al (2009) The identification of nonpeptide neurotensin receptor partial agonists from the potent antagonist SR48692 using a calcium mobilization assay. *Bioorg.Med.Chem.Lett.* **19** 1438. PMID: 19195889.

Oury-Donat et al (1995) Characterization of the effect of SR48692 on inositol monophosphate, cyclic GMP and cyclic AMP responses linked to neurotensin receptor activation in neuronal and non-neuronal cells. *Br.J.Pharmacol.* **116** 1899. PMID: 8528577.

Gully et al (1993) Biochemical and pharmacological profile of a potent and selective nonpeptide antagonist of the neurotensin receptor. *Proc.Natl.Acad.Sci.USA* **90** 65. PMID: 8380498.

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