

Product Name: Ro 04-6790

Catalog No.: 2911

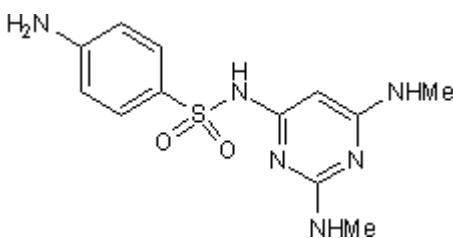
Batch No.: 2

CAS Number: 202466-68-0

IUPAC Name: 4-Amino-N-[2,6-bis(methylamino)-4-pyrimidinyl]-benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₆N₆O₂S
Batch Molecular Weight: 308.36
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.16 (Dichloromethane:Methanol [95:5])
HPLC: Shows >99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.74	5.23	27.24
Found	46.47	5.29	27.06

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

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Description:

Potent and selective 5-HT₆ receptor antagonist (pK_i values are 7.26 and 7.35 at rat and human 5-HT₆ receptors respectively). Displays no affinity at a range of other receptors (IC₅₀ > 10 μM). Induces stretching behavior in rats in vivo.

Physical and Chemical Properties:

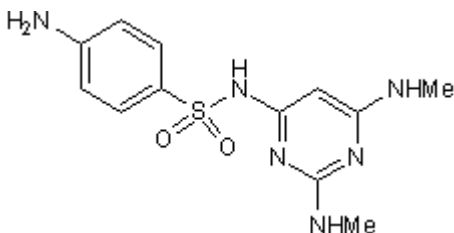
Batch Molecular Formula: C₁₂H₁₆N₆O₂S

Batch Molecular Weight: 308.36

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

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:

Sleight et al (1998) Characterization of Ro 04-6790 and Ro 63-2563: potent and selective antagonists at human and rat 5-HT₆ receptors. *Br.J.Pharmacol.* **124** 556. PMID: 9647481.

Bentley et al (1999) Investigation of stretching behaviour induced by the selective 5-HT₆ receptor antagonist, Ro 04-6790, in rats. *Br.J.Pharmacol.* **126** 1537. PMID: 10323584.

Fone (2008) An update on the role of the 5-hydroxytryptamine₆ receptor in cognitive function. *Neuropharmacology* **55** 1015. PMID: 18655798.

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