TOCRIS a biotechne brand

Certificate of Analysis

www.tocris.com

Product Name: GR 113808

Catalog No.: 1322 Batch No.: 3

CAS Number: IUPAC Name: 144625-51-4

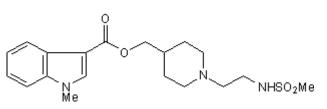
1-methyl-1H-indole-3-carboxylic acid, [1-[2-[(methylsulfonyl)amino]ethyl]-4-piperidinyl]methyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_{19}H_{27}N_{3}O_{4}S.\rlap{1}_{4}H_{2}O$

398 White solid DMSO to 12 mM 1eq. HCl to 25 mM ethanol to 50 mM Store at RT

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.4 (Chloroform:Methanol [9:1]) Shows 98.3% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

	Carbon	nyurogen	Milloger
Theoretical	57.34	6.96	10.56
Found	57.35	6.85	10.57

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

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Print Date: Jan 13th 2016

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CAS Number:

1-methyl-1H-indole-3-carboxylic acid, [1-[2-[(methylsulfonyl)amino]ethyl]-4-piperidinyl]methyl ester

Description:

IUPAC Name:

Potent, selective 5-HT₄ receptor antagonist (pK_B = 9.43 in human colonic muscle, and K_d = 0.15 nM for binding to cloned human 5-HT₄ receptors). Displays > 300-fold selectivity over 5-HT_{1A}, 5-HT_{1B}, 5-HT_{2A}, 5-HT_{2C} and 5-HT₃ receptors.

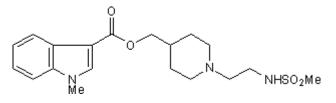
144625-51-4

Physical and Chemical Properties:

Batch Molecular Formula: $C_{19}H_{27}N_3O_4S.$ ^{1/4}H₂O Batch Molecular Weight: 398 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 12 mM 1eq. HCl to 25 mM ethanol to 50 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).

Catalog No.: 1322

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:

Gale *et al* (1994) GR113808: a novel, selective antagonist with high affinity at the 5-HT₄ receptor. Br.J.Pharmacol. **111** 332. PMID: 8012715.

Eglen et al (1995) Central 5-HT₄ receptors. TiPS 16 391. PMID: 8578609.

Van den Wyngaert et al (1997) Cloning and expression of a human serotonin 5-HT₄ receptor cDNA. J.Neurochem. 69 1810. PMID: 9349523.

Prins *et al* (2000) An improved *in vitro* bioassay for the study of 5-HT₄ receptors in the human isolated large intestinal circular muscle. Br.J.Pharmacol. **129** 1601. PMID: 10780964.

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info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956