

Certificate of Analysis

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Product Name: GR 125487 sulfamate

Catalog No.: 1658

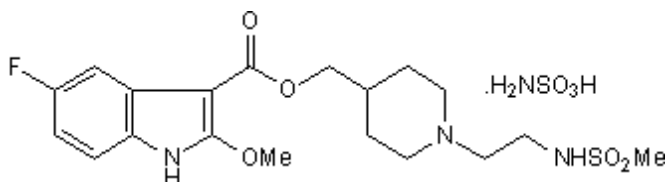
Batch No.: 3

CAS Number: 859502-43-5

IUPAC Name: 5-Fluoro-2-methoxy-[1-[2-[(methylsulfonyl)amino]ethyl]-4-piperidinyl]-1*H*-indole-3-methylcarboxylate sulfamate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₉ H ₂₆ FN ₃ O ₅ S.H ₂ NSO ₃ H.H ₂ O
Batch Molecular Weight:	542.6
Physical Appearance:	Brown solid
Solubility:	water to 10 mM with gentle warming phosphate buffered saline to 5 mM with gentle warming
Storage:	Desiccate at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.44 (Dichloromethane:Methanol:Ammonia soln. [10:4:0.1])
HPLC:	Shows 97% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	42.06	5.76	10.32
Found	42.16	5.58	10.24

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

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Description:

Potent and selective 5-HT₄ receptor antagonist (K_i = 0.19 nM for porcine 5-HT₄). Centrally active following systemic administration in vivo.

Physical and Chemical Properties:

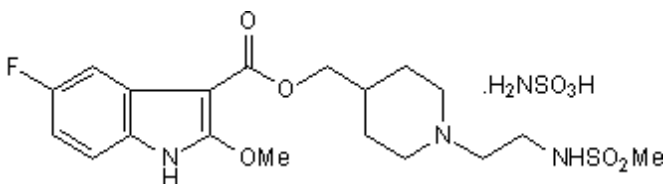
Batch Molecular Formula: C₁₉H₂₆FN₃O₅S.H₂NSO₃H.H₂O

Batch Molecular Weight: 542.6

Physical Appearance: Brown solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 10 mM with gentle warming
phosphate buffered saline to 5 mM with gentle warming

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:

Horikoshi et al (2001) Possible involvement of 5-HT₄ receptors, in addition to 5-HT₃ receptors, in the emesis induced by high-dose cisplatin in *Suncus murinus*. *Jpn.J.Pharmacol.* **85** 70. PMID: 11243577.

Galeotti et al (1998) Role of 5-HT₄ receptors in the mouse passive avoidance test. *J.Pharmacol.Exp.Ther.* **286** 1115. PMID: 9732367.

Schiavi et al (1994) Identification of serotonin 5-HT₄ recognition sites in the porcine caudate nucleus by radioligand binding. *Neuropharmacology* **33** 543. PMID: 7984293.

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