

Product Name: PD 168368

Catalog No.: 2603

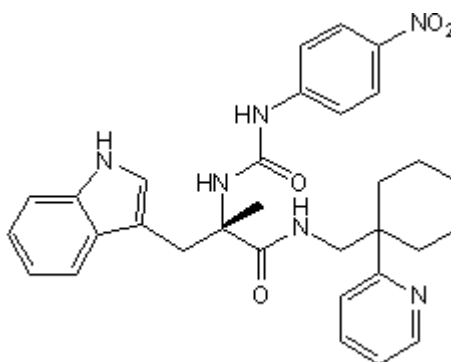
Batch No.: 1

CAS Number: 204066-82-0

IUPAC Name: (S)- α -Methyl- α -[[[(4-nitrophenyl)amino]carbonyl]amino]-N-[[1-(2-pyridinyl)cyclohexyl]methyl]-1H-indole-3-propanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₁H₃₄N₆O₄·H₂O
Batch Molecular Weight: 572.67
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.69 (Ethyl acetate)
HPLC: Shows 96.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +38.4 (Concentration = 1, Solvent = DMSO)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.02	6.34	14.68
Found	64.98	5.89	14.61

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

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Description:

Potent neuromedin B receptor antagonist (NMB-R, BB₁) (IC₅₀ = 40 nM) that displays ~ 40-fold selectivity over the gastrin-releasing peptide receptor (GRP-R, BB₂) and > 300-fold selectivity over BRS-R (bb₃). Antagonizes neuromedin B-stimulated calcium release and inhibits proliferation of rat glioma cells (IC₅₀ = 2 μ M).

Physical and Chemical Properties:

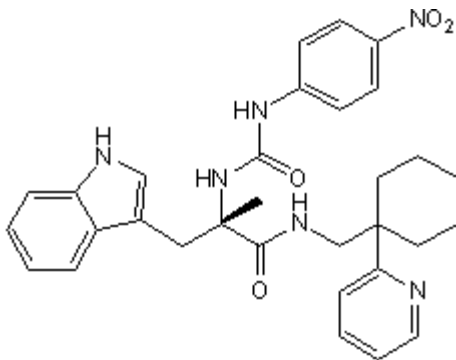
Batch Molecular Formula: C₃₁H₃₄N₆O₄.H₂O

Batch Molecular Weight: 572.67

Physical Appearance: Pale yellow solid

Minimum Purity: >96%

Batch Molecular Structure:



References:

Ryan et al (1999) Comparative pharmacology of the nonpeptide neuromedin B receptor antagonist PD 168368 J.Pharmacol.Exp.Ther. **290** 1202. PMID: 10454496.

Moody et al (2000) Nonpeptide neuromedin B receptor antagonists inhibit the proliferation of C6 cells. Eur.J.Pharmacol. **409** 133. PMID: 11104826.

Moody et al (2003) Nonpeptide gastrin releasing peptide receptor antagonists inhibit the proliferation of lung cancer cells. Eur.J.Pharmacol. **474** 21. PMID: 12909192.

Schepetkin et al (2011) Gastrin-releasing peptide/neuromedin B receptor antagonists pD176252, PD168368, and related analogs are potent agonists of human formyl-peptide receptors. Mol.Pharmacol. **79** 77. PMID: 20943772.

Storage: Store at +4°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.

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