

Product Name: PD 176252

Catalog No.: 2602

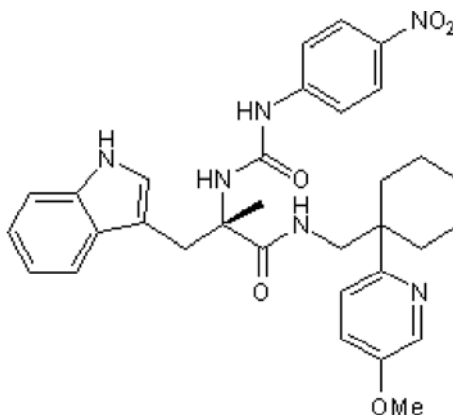
Batch No.: 5

CAS Number: 204067-01-6

IUPAC Name: (S)-N-[[1-(5-Methoxy-2-pyridinyl)cyclohexyl]methyl]-α-methyl-α-[[[(4-nitrophenyl)amino]carbonyl]amino]-1*H*-indole-3-propanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₂ H ₃₆ N ₆ O ₅
Batch Molecular Weight:	584.67
Physical Appearance:	Light yellow solid
Solubility:	DMSO to 100 mM
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.9% purity
Chiral HPLC:	Shows 99.8% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	65.74	6.21	14.37
Found	65.61	6.26	14.52

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

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Description:

Non-peptide gastrin-releasing peptide receptor (GRP-R, BB₂) and neuromedin B receptor (NMB-R, BB₁) antagonist (K_i values are 0.17 and 1.0 nM for BB₁ and BB₂ respectively). Inhibits proliferation of rat C6 glioma cells (IC₅₀ = 2 μ M) and inhibits NCI-H1299 xenograft proliferation in nude mice (IC₅₀ = 5 μ M).

Physical and Chemical Properties:

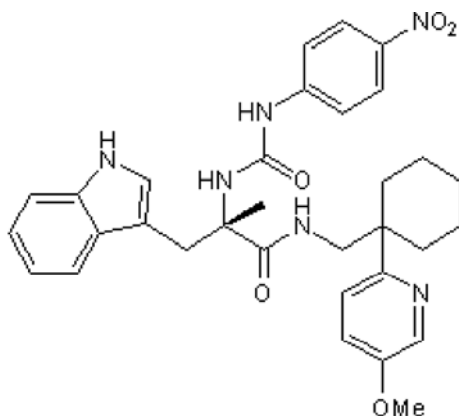
Batch Molecular Formula: C₃₂H₃₆N₆O₅

Batch Molecular Weight: 584.67

Physical Appearance: Light yellow solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



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.

References:

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.

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

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

Ashwood et al (1998) PD 176252 - the first high affinity non-peptide gastrin-releasing peptide (BB₂) receptor antagonist *Bioorg.Med.Chem.Lett.* **8** 2589. PMID: 9873586.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956