

Product Name: ML 18

Catalog No.: 5599

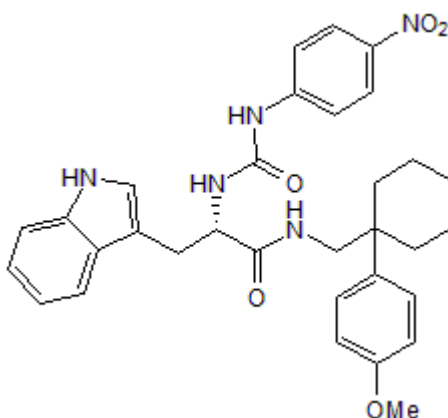
Batch No.: 1

CAS Number: 1422269-30-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₂H₃₅N₅O₅
Batch Molecular Weight: 569.65
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows 99.5% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.47	6.19	12.29
Found	67.36	6.13	12.26

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

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Description:

Bombesin receptor subtype 3 (BRS-3) antagonist (IC_{50} = 4.8 μ M). Also binds GRPR (IC_{50} = 16 μ M). Inhibits BA1-stimulated cytosolic Ca^{2+} and suppresses cell proliferation in a lung cancer model in vitro.

Physical and Chemical Properties:

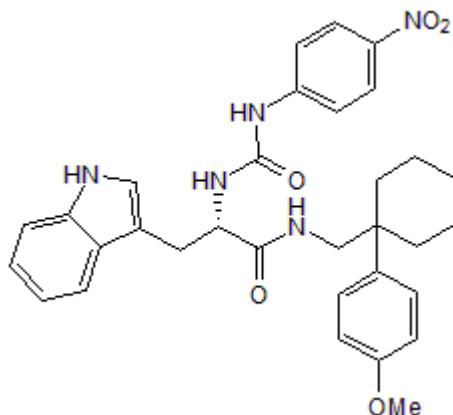
Batch Molecular Formula: $C_{32}H_{35}N_5O_5$

Batch Molecular Weight: 569.65

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:

Moody et al (2015) ML-18 is a non-peptide bombesin receptor subtype-3 antagonist which inhibits lung cancer growth. *Peptides* **64** 55. PMID: 25554218.

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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