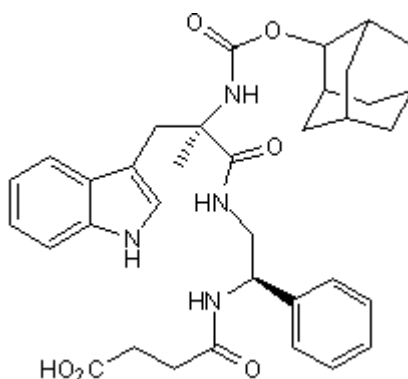


Product Name: CI 988 **Catalog No.:** 2607 **Batch No.:** 1
CAS Number: 130332-27-3
IUPAC Name: 4-[[[(1*R*)-2-[[[(2*R*)-3-(1*H*-indol-3-yl)-2-methyl-1-oxo-2-[[[tricyclo[3.3.1.1.1^{3,7}]dec-2-yl]oxy]carbonyl]amino]propyl]amino]-1-phenylethyl]amino]-4-oxobutanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₅H₄₂N₄O₆·½H₂O
Batch Molecular Weight: 623.74
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.31 (Dichloromethane:Methanol [90:10])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -9.1 (Concentration = 0.22, Solvent = Acetone)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.4	6.95	8.98
Found	67.58	7.06	8.59

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

Product Name: CI 988

Catalog No.: 2607

Batch No.: 1

CAS Number: 130332-27-3

IUPAC Name: 4-[[[(1R)-2-[[[(2R)-3-(1H-indol-3-yl)-2-methyl-1-oxo-2-[[[(tricyclo[3.3.1.1.3,7]dec-2-yloxy)carbonyl]amino]propyl]amino]-1-phenylethyl]amino]-4-oxobutanoic acid

Description:

Potent and selective CCK₂ (CCK-B) receptor antagonist that displays ~ 1600-fold selectivity over CCK₁ receptors (IC₅₀ values are 1.7 and 2717 nM for CCK₂ and CCK₁ respectively). Has negligible affinity at a range of other binding sites (IC₅₀ > 10 μM). Exhibits anxiolytic activity following oral administration.

Physical and Chemical Properties:

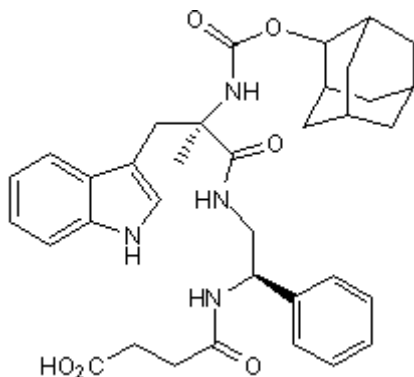
Batch Molecular Formula: C₃₅H₄₂N₄O₆ · ½H₂O

Batch Molecular Weight: 623.74

Physical Appearance: White solid

Minimum Purity: >99%

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:

Hughes et al (1990) Development of a class of selective cholecystinin type B receptor antagonists having potent anxiolytic activity. Proc.Natl.Acad.Sci.USA **87** 6728.

Moody et al (2001) CI-988 inhibits growth of small cell lung cancer cells. J.Pharmacol.Exp.Ther. **299** 1154. PMID: 11714907.

Andre et al (2005) Involvement of cholecystininergic systems in anxiety-induced hyperalgesia in male rats: behavioral and biochemical studies. J.Neurosci. **25** 7896. PMID: 16135746.

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

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