

Product Name: L-365,260

Catalog No.: 2767

Batch No.: 2

CAS Number: 118101-09-0

IUPAC Name: *N*-[(3*R*)-2,3-Dihydro-1-methyl-2-oxo-5-phenyl-1*H*-1,4-benzodiazepin-3-yl]-*N'*-(3-methylphenyl)urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₂N₄O₂·½H₂O

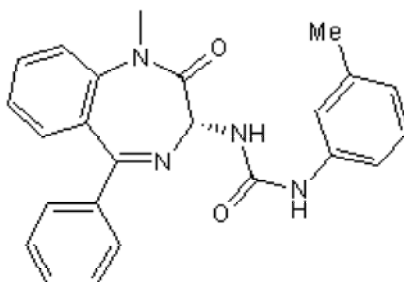
Batch Molecular Weight: 407.47

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.67 (Ethyl acetate:Petroleum ether [2:3])

HPLC: Shows >99.5% purity

Chiral HPLC: Shows >99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +100.4 (Concentration = 1.1, Solvent = Chloroform)

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 70.74 | 5.69 | 13.75 |
| Found | 70.63 | 6.01 | 13.51 |

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

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Description:

L-365,260 is a selective cholecystokinin receptor 2 (CCK₂) antagonist (IC₅₀ values are 2 and 280 nM at CCK₂ and CCK₁ receptors respectively) that is inactive at a range of other receptors including opiate, muscarinic acetylcholine, α- and β adrenergic, histamine, angiotensin and bradykinin receptors.

Physical and Chemical Properties:

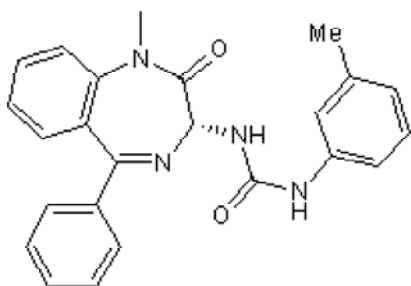
Batch Molecular Formula: C₂₄H₂₂N₄O₂·½H₂O

Batch Molecular Weight: 407.47

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Chung et al (2009) Cholecystokinin action on layer 6b neurons in somatosensory cortex. *Brain Res.* **1282** 10. PMID: 19497313.

Kees et al (1989) Benzodiazepine gastrin and brain cholecystokinin receptor ligands: L-365,260. *J.Med.Chem.* **32** 13. PMID: 2909725.

Lotti and Chang (1989) A new potent and selective non-peptide gastrin antagonist and brain cholecystokinin receptor (CCK-B) ligand: L-365,260. *Eur.J.Pharmacol.* **162** 273. PMID: 2721567.

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