

Product Name: Devazepide

Catalog No.: 2304

Batch No.: 2

CAS Number: 103420-77-5

IUPAC Name: *N*-[(3*S*)-2,3-Dihydro-1-methyl-2-oxo-5-phenyl-1*H*-1,4-benzodiazepin-3-yl]-1*H*-indole-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₀N₄O₂·¼H₂O

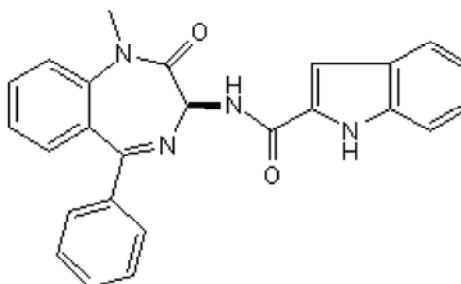
Batch Molecular Weight: 412.96

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (DCM:Methanol:Water:Acetic acid [9:1:0.1:0.1])

HPLC: Shows 100% purity

Chiral HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -102 (Concentration = 0.9, Solvent = Chloroform)

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 72.71 | 5 | 13.57 |
| Found | 72.65 | 4.93 | 13.5 |

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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

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Description:

Potent, orally active CCK₁ (CCK-A) receptor antagonist that displays appetite-stimulant effects. Blocks the anorectic response to CCK-8 and increases food intake in rats following systemic and i.c.v administration.

Physical and Chemical Properties:

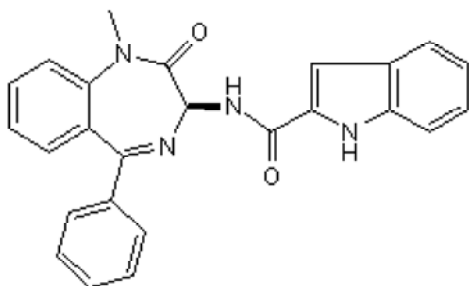
Batch Molecular Formula: C₂₅H₂₀N₄O₂·¼H₂O

Batch Molecular Weight: 412.96

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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:

Duca *et al* (2015) MetF. activates a duodenal Ampk-dependent pathway to lower hepatic glucose production in rats. *Nat.Med.* **21** 506. PMID: 25849133.

Ritter (2004) Increased food intake and CCK receptor antagonists: beyond abdominal vagal afferents. *Am.J.Physiol.Reg.Integr.Comp.Physiol.* **286** R991. PMID: 15142854.

Reidelberger *et al* (2003) Effects of peripheral CCK receptor blockade on food intake in rats. *Am.J.Physiol.Reg.Integr.Comp.Physiol.* **285** R429. PMID: 12738611.

Ebenezer (2002) Effects of intracerebroventricular administration of the CCK1 receptor antagonist devazepide on food intake in rats. *Eur.J.Pharmacol.* **441** 79. PMID: 12007923.

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