

**Product Name:** Devazepide

**Catalog No.:** 2304

**Batch No.:** 3

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:** C<sub>25</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>·½H<sub>2</sub>O

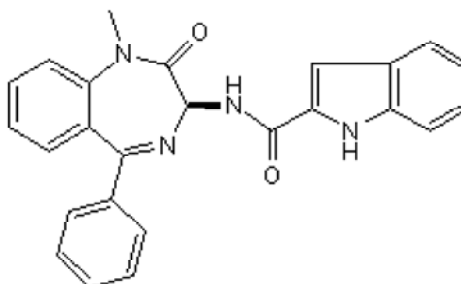
**Batch Molecular Weight:** 417.47

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 50 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100.0% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = -106.1 (Concentration = 0.9, Solvent = ACN)

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 71.93  | 5.07     | 13.42    |
| Found       | 71.52  | 4.88     | 13.33    |

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

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**Description:**

Devazepide is a potent, orally active CCK<sub>1</sub> (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:**

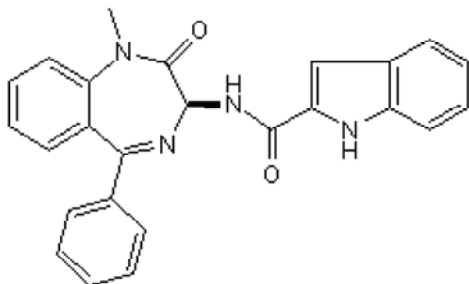
Batch Molecular Formula: C<sub>25</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 417.47

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 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.

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