

**Product Name:** JZP 361

**Catalog No.:** 5851

**Batch No.:** 1

CAS Number: 1680193-80-9

IUPAC Name: [4-(8-Chloro-5,6-dihydro-11*H*-benzo[5,6]cyclohepta[1,2-*b*]pyridin-11-ylidene)-1-piperidinyl](1*H*-1,2,4-triazol-1-yl) methanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>20</sub>ClN<sub>5</sub>O.¼H<sub>2</sub>O

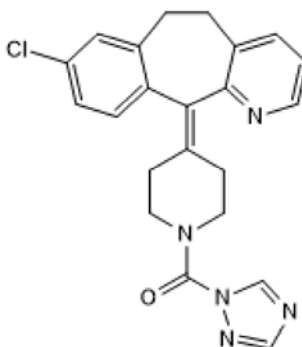
**Batch Molecular Weight:** 410.38

**Physical Appearance:** Off White solid

**Solubility:** DMSO to 100 mM  
ethanol to 20 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.4 (Dichloromethane:Methanol [95:5])

**HPLC:** Shows 99.9% purity

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

**Mass Spectrum:** Consistent with structure

	Carbon Hydrogen Nitrogen		
	Carbon	Hydrogen	Nitrogen
Theoretical	64.39	5.03	17.07
Found	64.63	4.94	17.02

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**Description:**

Potent and selective reversible MAGL inhibitor ( $IC_{50}$  = 46 nM). Exhibits 35-fold and 150-fold higher selectivity over human FAAH and ABHD6, respectively ( $IC_{50}$  values are 1.79 and 7.24  $\mu$ M, respectively). Displays affinity for  $H_1$  receptors ( $pA_2$  = 6.81). Exhibits no activity at cannabinoid receptors at 10  $\mu$ M.

**Physical and Chemical Properties:**

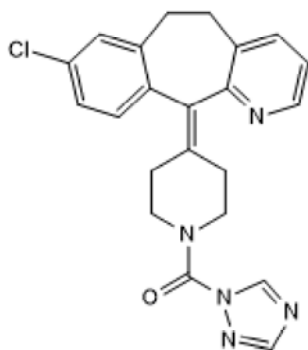
Batch Molecular Formula:  $C_{22}H_{20}ClN_5O \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 410.38

Physical Appearance: Off White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

Patel *et al* (2015) Loratadine analogues as MAGL inhibitors. *Bioorg.Med.Chem.Lett.* **25** 1436. PMID: 25752982.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 20 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.

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