

Certificate of Analysis

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Product Name: Desmethyl-YM 298198

Catalog No.: 2447

Batch No.: 1

CAS Number: 1177767-57-5

IUPAC Name: 6-Amino-*N*-cyclohexyl-3-methylthiazolo[3,2-*a*]benzimidazole-2-carboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₀N₄OS.HCl

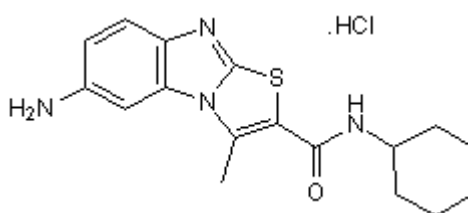
Batch Molecular Weight: 364.89

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Dichloromethane:Methanol [9:1])

Melting Point: Between 272 - 274°C(dec)

HPLC: Shows >99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.96	5.8	15.35
Found	55.75	5.88	15.06

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

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Description:

Derivative of the mGlu₁-selective antagonist YM 298198 (Cat. No. 2448).

Physical and Chemical Properties:

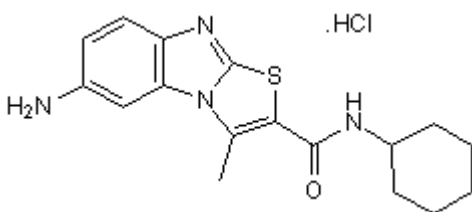
Batch Molecular Formula: C₁₇H₂₀N₄OS.HCl

Batch Molecular Weight: 364.89

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO 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:

Kohara *et al* (2005) Radioligand binding properties and pharmacological characterization of 6-Amino-*N*-cyclohexyl-*N*,3-dimethyl-thiazolo [3,2-*a*]benzimidazole-2-carboxamide (YM-298198), a high-affinity, selective and noncompetitive antagonist of metabotropic glutamate receptor type 1. *J.Pharmacol.Exp.Ther.* **315** 163. PMID: 15976016.

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