

**Product Name:** DBM 1285 dihydrochloride

**Catalog No.:** 5095

**Batch No.:** 1

CAS Number: 1782532-29-9

IUPAC Name: *N*-Cyclopropyl-4-[4-(4-fluorophenyl)-2-(4-piperidiny)-5-thiazolyl]-2-pyrimidinamine dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>22</sub>FN<sub>5</sub>S.2HCl.¼H<sub>2</sub>O

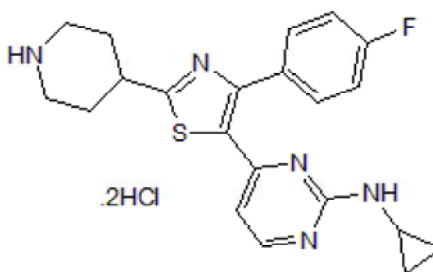
**Batch Molecular Weight:** 472.92

**Physical Appearance:** Pale yellow solid

**Solubility:** water to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.17 (Chloroform:Methanol:Ammonia soln. [10:1:0.1])

**HPLC:** Shows 99.1% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.33	5.22	14.81
Found	53.27	5.23	14.61

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

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**Description:**

DBM 1285 dihydrochloride is a p38 MAPK inhibitor. Suppresses p38 phosphorylation and LPS-induced TNF- $\alpha$  production in macrophages and in vivo. Attenuates zymosan-induced inflammation and adjuvant-induced arthritis in murine models. Orally active.

**Physical and Chemical Properties:**

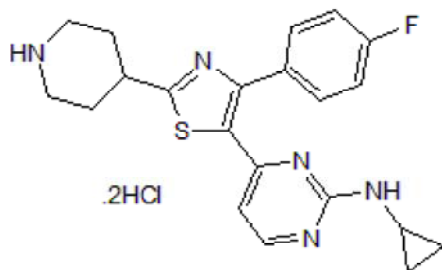
Batch Molecular Formula: C<sub>21</sub>H<sub>22</sub>FN<sub>5</sub>S.2HCl.½H<sub>2</sub>O

Batch Molecular Weight: 472.92

Physical Appearance: Pale yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water 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:**

**Kang et al** (2010) DBM1285 suppresses tumor necrosis factor  $\alpha$  production by blocking p38 mitogen-activated protein kinase/mitogen-activated protein kinase-activated protein kinase 2 signaling pathway. *J.Pharmacol.Exp.Ther.* **334** 657. PMID: 20427474.

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