

Product Name: SB 239063

Catalog No.: 1962

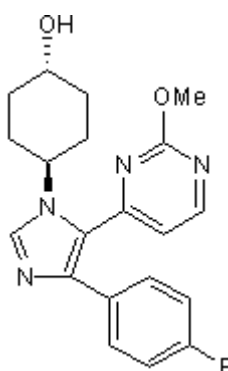
Batch No.: 4

CAS Number: 193551-21-2

IUPAC Name: *trans*-4-[4-(4-Fluorophenyl)-5-(2-methoxy-4-pyrimidinyl)-1*H*-imidazol-1-yl]cyclohexanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₁FN₄O₂
Batch Molecular Weight: 368.41
Physical Appearance: white solid
Solubility: DMSO to 10 mM with gentle warming
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.53 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.2	5.75	15.21
Found	64.74	5.69	15.08

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

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Description:

Potent and selective p38 MAP kinase inhibitor (IC₅₀ = 44 nM for p38α). Displays > 220-fold selectivity over ERK, JNK1 and other kinases; ~ 3-fold more selective than SB 203580 (Cat. Nos. 1202 and 1402). Reduces inflammatory cytokine production and is neuroprotective following oral administration in vivo.

Physical and Chemical Properties:

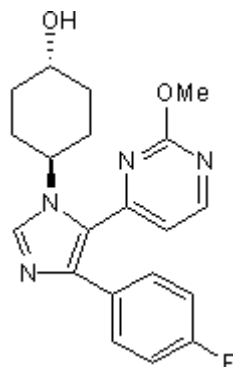
Batch Molecular Formula: C₂₀H₂₁FN₄O₂

Batch Molecular Weight: 368.41

Physical Appearance: white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming

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:

Underwood et al (2000) SB 239063, a potent p38 MAP kinase inhibitor, reduces inflammatory cytokine production, airways eosinophil infiltration, and persistence. *J.Pharmacol.Exp.Ther.* **293** 281. PMID: 10734180.

Barone et al (2001) SB 239063, a second-generation p38 mitogen-activated protein kinase inhibitor, reduces brain injury and neurological deficits in cerebral focal ischemia. *J.Pharmacol.Exp.Ther.* **296** 312. PMID: 11160612.

Legos et al (2002) The selective p38 inhibitor SB-239063 protects primary neurons from mild to moderate excitotoxic injury. *Eur.J.Pharmacol.* **447** 37. PMID: 12106800.

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