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)-1H-imidazol-1-yl]cyclohexanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{20}\text{H}_{21}\text{FN}_{4}\text{O}_{2} \)
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: \( \text{R}_f = 0.53 \) (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.2% purity
\(^1\text{H} \text{NMR}: \) 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 (IC$_{50}$ = 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: C$_{20}$H$_{21}$FN$_{4}$O$_{2}$
Batch Molecular Weight: 368.41
Physical Appearance: White solid
Minimum Purity: ≧98%

Batch Molecular Structure:

![Molecular Structure](https://via.placeholder.com/150)

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.

Licensing Information: Sold for research purposes under agreement from GlaxoSmithKline

References:
