

Certificate of Analysis

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Product Name: JX 401

Catalog No.: 2657

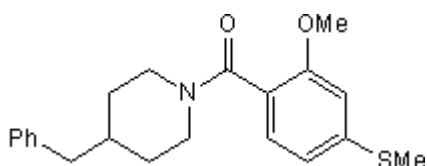
Batch No.: 1

CAS Number: 349087-34-9

IUPAC Name: 1-[2-Methoxy-4-(methylthio)benzoyl]-4-(phenylmethyl)piperidine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₅NO₂S
Batch Molecular Weight: 355.49
Physical Appearance: Off-white solid
Solubility: DMSO to 75 mM
ethanol to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.95	7.09	3.94
Found	71.2	7.18	4.03

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

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IUPAC Name: 1-[2-Methoxy-4-(methylthio)benzoyl]-4-(phenylmethyl)piperidine

Description:

Potent, reversible inhibitor of p38 α that displays no activity on the p38 γ isoform (IC₅₀ values are 32 nM and > 10 μ M respectively). Inhibits the differentiation of myoblasts to myotubes in mammalian cells in culture.

Physical and Chemical Properties:

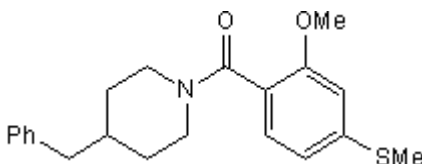
Batch Molecular Formula: C₂₁H₂₅NO₂S

Batch Molecular Weight: 355.49

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Friedmann et al (2006) JX401, a p38 α inhibitor containing a 4-benzylpiperidine motif, identified via a novel screening system in yeast. *Mol.Pharmacol.* **70** 1395. PMID: 16847144.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 75 mM
ethanol 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.

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