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DATASHEET

JX 401

Product overview

Name	JX 401
Cat No	HB1298
Biological action	Inhibitor
Purity	>98%
Description	Potent, reversible p38α MAPK inhibitor

Biological Data

Biological description	Potent and reversible p38α MAPK inhibitor (IC ₅₀ = 32 nM) that isn't ATP-competitive. Membrane permeable. Exhibits little or no activity at p38γ. Inhibits Elk1 phosphorylation. Displays anti-inflammatory properties.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (75mM) or ethsnol (50mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	1-[2-Methoxy-4-(methylthio)benzoyl]-4-(phenylmethyl)piperidine
Molecular Weight	355.49
Chemical structure	
Molecular Formula	C ₂₁ H ₂₅ NO ₂ S
CAS Number	349087-34-9
PubChem identifier	1126109
SMILES	<chem>COC1=C(C=CC(SC)=C1)C(=O)N1CCC(CC2=CC=CC=C2)CC1</chem>
InChiKey	OMGLGPKQUFSRNN-UHFFFAOYSA-N

References

JX401, A p38alpha inhibitor containing a 4-benzylpiperidine motif, identified via a novel screening system in yeast.

Friedmann Y *et al* (2006) Mol Pharmacol 70(4)

PubMedID [16847144](#)