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DATASHEET

RWJ 67657

Product overview

Name	RWJ 67657
Cat No	HB1300
Biological action	Inhibitor
Purity	>98%
Description	Potent p38 MAPK inhibitor

Biological Data

Biological description	Potent p38 MAPK inhibitor (IC ₅₀ values are 1.0 and 11 μM for p38α and β subunits respectively). Exhibits no activity at p38γ or δ subunits. Potently inhibits TNFα, IL-1β and IL-8 production (IC ₅₀ values are 15, 11 and 30 nM respectively). Also inhibits IL-6, IL-8, MMP3, COX-2 mRNA and HIV replication. Displays anti-inflammatory and cardioprotective properties. Approx 10-fold more potent than SB 203580.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM) or ethanol (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	4-[4-(4-Fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]-3-butyne-1-ol
Molecular Weight	425.5
Chemical structure	
Molecular Formula	C ₂₇ H ₂₄ FN ₃ O
CAS Number	215303-72-3
PubChem identifier	3008319
SMILES	FC(C=C4)=CC=C4C(N=C(C#CCCCO)N2CCCC3=CC=CC=C3)=C2C1=CC=NC=C1
InChiKey	QSUSKMBNZQHHPA-UHFFFAOYSA-N

References

Strong inhibition of TNF-alpha production and inhibition of IL-8 and COX-2 mRNA expression in monocyte-derived macrophages by RWJ 67657, a p38 mitogen-activated protein kinase (MAPK) inhibitor.

Westra J *et al* (2004) Arthritis Res Ther 6(4)

PubMedID [15225374](#)

RWJ 67657, a potent, orally active inhibitor of p38 mitogen-activated protein kinase.

Wadsworth SA *et al* (1999) J Pharmacol Exp Ther 291(2)

PubMedID [10525088](#)

p38 mitogen-activated protein kinase inhibition improves cardiac function and attenuates left ventricular remodeling following myocardial infarction in the rat.

See F *et al* (2004) J Am Coll Cardiol 44(8)

PubMedID [15489104](#)

Suppression of HIV-1 viral replication and cellular pathogenesis by a novel p38/JNK kinase inhibitor.

Muthumani K *et al* (2004) AIDS 18(5)

PubMedID [15075508](#)
