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DATASHEET

TAK 715

Product overview

Name	TAK 715
Cat No	HB0599
Biological action	Inhibitor
Purity	>99%
Description	Potent, p-38 MAP kinase inhibitor. Wnt/β-catenin signaling inhibitor.

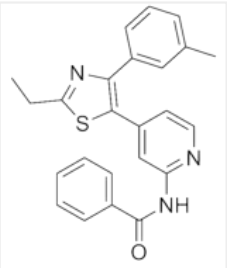
Biological Data

Biological description	Potent p-38 MAP kinase inhibitor (IC_{50} = 7.1 nM for p-38MAPKα). Also Wnt-3a-stimulated β-catenin signalling inhibitor. Shows anti-rheumatic and anti-inflammatory properties.

Solubility & Handling

Storage instructions	+4°C
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	*N*-[4-[2-Ethyl-4-(3-methylphenyl)-5-thiazolyl]-2-pyridinyl]benzamide
Molecular Weight	399.51
Chemical structure	
Molecular Formula	$C_{24}H_{21}N_3OS$
CAS Number	303162-79-0
PubChem identifier	9952773
SMILES	CCC1=NC(=C(S1)C2=CC(=NC=C2)NC(=O)C3=CC=CC=C3)C4=CC(=CC=C4)C
InChiKey	BRYAJHADJWBFQY-UHFFFAOYSA-N

References

Inhibition of Wnt/β-catenin signaling by p38 MAP kinase inhibitors is explained by cross-reactivity with casein kinase Iδ/ε.

Verkaar F *et al* (2011) Chem Biol 18(4)

PubMedID 21513885

Novel inhibitor of p38 MAP kinase as an anti-TNF-alpha drug: discovery of N-[4-[2-ethyl-4-(3-methylphenyl)-1,3-thiazol-5-yl]-2-pyridyl]benzamide (TAK-715) as a potent and orally active anti-rheumatoid arthritis agent.

Miwatashi S *et al* (2005) J Med Chem 48(19)
PubMedID 16162000

X-ray structure of p38α bound to TAK-715: comparison with three classic inhibitors.

Azevedo R *et al* (2012) Acta Crystallogr D Biol Crystallogr 68(Pt 8)
PubMedID 22868770