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DATASHEET

VX 745

Product overview

Name	VX 745
Cat No	HB1309
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective p38 α MAPK inhibitor

Biological Data

Biological description	Potent and selective p38 α MAPK inhibitor. Exhibits 20-fold selectivity for p38 α over p38 β (K_i = 200 nM). Shows little or no activity at other MAP kinases. Inhibits TNF α and IL-1 β (IC_{50} values are 45 and 51 nM respectively). Displays anti-inflammatory properties.
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Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (100mM)
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	5-(2,6-Dichlorophenyl)-2-[2,4-difluorophenyl]thio]-6H-pyrimido[1,6-b]pyridazin-6-one
Molecular Weight	436.26
Chemical structure	
Molecular Formula	C ₁₉ H ₉ Cl ₂ F ₂ N ₃ OS
CAS Number	209410-46-8
PubChem identifier	3038525
SMILES	O=C2N=CN1N=C(SC4=CC=C(F)C=C4F)C=CC1=C2C3=C(CI)C=CC=C3Cl
InChiKey	VEPKQEUBKLEPRA-UHFFFAOYSA-N

References

The Discovery of VX-745: A Novel and Selective p38 α Kinase Inhibitor.

Duffy JP *et al* (2011) ACS Med Chem Lett 2(10)

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Rapid synthesis of VX-745: p38 MAP kinase inhibition in Werner syndrome cells.

Bagley MC *et al* (2007) Bioorg Med Chem Lett 17(18)

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