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# DATASHEET

VX 745

## Product overview

<b>Name</b>	VX 745
<b>Cat No</b>	HB1309
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Potent, selective p38 $\alpha$ MAPK inhibitor

## Biological Data

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

<b>Storage instructions</b>	-20°C
<b>Solubility overview</b>	Soluble in DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

## Chemical Data

<b>Chemical name</b>	5-(2,6-Dichlorophenyl)-2-[2,4-difluorophenyl]thio]-6H-pyrimido[1,6-b]pyridazin-6-one
<b>Molecular Weight</b>	436.26
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>19</sub> H <sub>9</sub> Cl <sub>2</sub> F <sub>2</sub> N <sub>3</sub> OS
<b>CAS Number</b>	209410-46-8
<b>PubChem identifier</b>	3038525
<b>SMILES</b>	O=C2N=CN1N=C(SC4=CC=C(F)C=C4F)C=CC1=C2C3=C(CI)C=CC=C3CI
<b>InChiKey</b>	VEPKQEUBKLEPRA-UHFFFAOYSA-N

## References

### The Discovery of VX-745: A Novel and Selective p38 $\alpha$ Kinase Inhibitor.

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

**PubMedID** [24900264](#)

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

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

**PubMedID** [17659871](#)

