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DATASHEET

10Z-Hymenialdisine

Product overview

Name	10Z-Hymenialdisine
Cat No	HB1264
Alternative names	SK&F 108752
Biological action	Inhibitor
Purity	>97%
Description	Pan kinase inhibitor. Potently inhibits MEK1, Cdk1, Cdk2, Cdk3 and Cdk5 and GSK-3β.

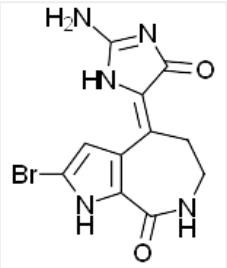
Biological Data

Biological description	Pan kinase inhibitor. Potently inhibits MEK1 (IC_{50} = 6 nM at MEK-1) and GSK-3β. Also Inhibits IL-8, CDK1/cyclin B, CDK2/cyclin A, CDK2/cyclin E, CDk3/cyclin E and CDK5/p35 (IC_{50} values are 0.41 µM, 22, 70, 40, 100 and 28 nM respectively). Exhibits reduced activity at CDK4/cyclin D1 and CDK6/cyclin D2 (IC_{50} values are 600 and 700 nM respectively). Displays growth inhibitory properties towards tumor cells.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (10mM)
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*Z*)-4-(2-Amino-1,5-dihydro-5-oxo-4 *H*-imidazol-4-ylidene)-2-bromo-4,5,6,7-tetrahydropyrrolo[2,3-*c*]azepin-8(1*H*)-one
Molecular Weight	324.13
Chemical structure	
Molecular Formula	$C_{11}H_{10}BrN_5O_2$
CAS Number	82005-12-7
PubChem identifier	3035462
SMILES	O=C(NCC1)C2=C(C=C(Br)N2)/C1=C3/C(N=C(N)N3)=O
InChiKey	ATBAETXFFCOZOY-DAXSKMNVSA-N

References

Aldisine alkaloids from the Philippine sponge Stylissa massa are potent inhibitors of mitogen-activated protein kinase kinase-1 (MEK-1).

Tasdemir D *et al* (2002) J Med Chem 45(2)
PubMedID 11784156

Inhibition of cyclin-dependent kinases, GSK-3beta and CK1 by hymenialdisine, a marine sponge constituent.

Meijer L *et al* (2000) Chem Biol 7(1)
PubMedID 10662688