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## DATASHEET

### 10Z-Hymenialdisine

#### Product overview

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

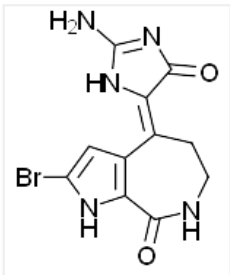
#### Biological Data

<b>Biological description</b>	Pan kinase inhibitor. Potently inhibits MEK1 (IC <sub>50</sub> = 6 nM at MEK-1) and GSK-3 $\beta$ . Also Inhibits IL-8, CDK1/cyclin B, CDK2/cyclin A, CDK2/cyclin E, CDK3/cyclin E and CDK5/p35 (IC <sub>50</sub> values are 0.41 $\mu$ M, 22, 70, 40, 100 and 28 nM respectively). Exhibits reduced activity at CDK4/cyclin D1 and CDK6/cyclin D2 (IC <sub>50</sub> values are 600 and 700 nM respectively). Displays growth inhibitory properties towards tumor cells.
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#### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (10mM)
<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>	(4Z)-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(1H)-one
<b>Molecular Weight</b>	324.13
<b>Chemical structure</b>	

<b>Molecular Formula</b>	C <sub>11</sub> H <sub>10</sub> BrN <sub>5</sub> O <sub>2</sub>
<b>CAS Number</b>	82005-12-7
<b>PubChem identifier</b>	3035462
<b>SMILES</b>	O=C(NCC1)C2=C(C=C(Br)N2)/C1=C3/C(N=C(N)N3)=O
<b>InChiKey</b>	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](#)

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