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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.

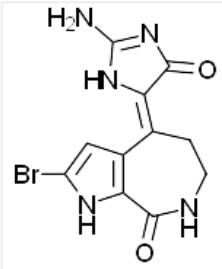
## Biological Data

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 $\mu$ M, 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.
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## 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	(4Z)-4-(2-Amino-1,5-dihydro-5-oxo-4 <i>H</i> -imidazol-4-ylidene)-2-bromo-4,5,6,7-tetrahydropyrrrolo[2,3- <i>c</i> ]azepin-8(1 <i>H</i> )-one
Molecular Weight	324.13
Chemical structure	 The chemical structure shows a complex polycyclic system. It features a central imidazol-4-ylidene group (a five-membered ring fused to a four-membered imidazole ring) which is substituted with a 2-bromo-4,5,6,7-tetrahydropyrrrolo[2,3- <i>c</i> ]azepin-8(1 <i>H</i> )-one moiety. This fused system is further substituted with a 2-amino group and a 4,5,6,7-tetrahydropyrrrolo[2,3- <i>c</i> ]azepin-8(1 <i>H</i> )-one group.
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-DAXSKMNVS-A

## 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-3 $\beta$  and CK1 by hymenialdisine, a marine sponge constituent.**

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

**PubMedID**

[10662688](#)

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