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DATASHEET

Herbimycin A

Product overview

Name	Herbimycin A
Cat No	HB1325
Biological action	Inhibitor
Purity	>99%
Description	Src family kinase inhibitor

Biological Data

Biological description	Src family kinase inhibitor. Inhibits Hsp90 in the heat shock response. Inhibits IκB kinase β and suppresses NF-κB. Shows anti-inflammatory, antibiotic and anti-angiogenic actions.
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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	(15 <i>R</i>)-17-demethoxy-15-methoxy-11- <i>O</i> -methyl-geldanamycin
Molecular Weight	574.67
Chemical structure	
Molecular Formula	C ₃₀ H ₄₂ N ₂ O ₉
CAS Number	70563-58-5
PubChem identifier	6436247
SMILES	<chem>O=C1C=C([C@H](OC)[C@@H](C)C[C@H](OC)[C@H](OC)[C@@H](C)/C=C(C)/[C@H](OC(N)=O)[C@@H](OC)/C=C/C=C(C)/C2=O)C(C(N2)=C1)=O</chem>
InChiKey	MCAHMSDENAOJFZ-GDYSMBPZSA-N

References

Herbimycin A inhibits angiogenic activity in endothelial cells and reduces neovascularization in a rat model of retinopathy of prematurity.

McCollum GW *et al* (2004) *Exp Eye Res* 78(5)

PubMedID [15051479](#)

Herbimycin A abrogates nuclear factor-kappaB activation by interacting preferentially with the IκappaB kinase beta subunit.

Ogino S *et al* (2004) *Mol Pharmacol* 65(6)

PubMedID [15155828](#)

Inhibition of Hsp90 function delays and impairs recovery from heat shock.

Duncan RF (2005) FEBS J 272(20)

PubMedID

16218955
