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DATASHEET

Wortmannin

Product overview

Name	Wortmannin
Cat No	HB2778
Alternative names	SL-2052
Biological action	Inhibitor
Purity	>99%
Description	Potent, selective, irreversible PI3-K inhibitor

Biological Data

Biological description	Potent, selective, non-competitive and irreversible PI3-K inhibitor ($IC_{50} = 2-4$ nM). Also inhibits PI3-K related kinases and PLK1. Cell permeable. Shows variety of biological actions.
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Solubility & Handling

Storage instructions	-20 °C (desiccate)
Solubility overview	DMSO (50mM) and Ethanol (5mM)
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	(1 <i>S</i> ,6 <i>bR</i> ,9 <i>aS</i> ,11 <i>R</i> ,11 <i>bR</i>) 11-(Acetyloxy)-1,6 <i>b</i> ,7,8,9 <i>a</i> ,10,11,11 <i>b</i> -octahydro-1-(methoxymethyl)-9 <i>a</i> ,11 <i>b</i> -dimethyl-3 <i>H</i> -furo[4,3,2- <i>de</i>]indeno[4,5,6- <i>h</i>]2-benzopyran-3,6, 9-trione
Molecular Weight	428.44
Chemical structure	
Molecular Formula	$C_{23}H_{24}O_8$
CAS Number	19545-26-7
PubChem identifier	3003565
SMILES	<chem>O=C(C4=CO5)O[C@H](COC)[C@@]1(C)C4=C5C(C2=C1[C@H](OC(C)=O)C[C@@]3(C)C2CCC3=O)=O</chem>
InChiKey	QDLHCMPXEPAAMD-ZGSWIPFCSA-N

References

Wortmannin as a unique probe for an intracellular signalling protein, phosphoinositide 3-kinase.

Ui et al (1995) Trends Biochem Sci 20(8)

PubMedID [7667888](#)

Wortmannin, a potent and selective inhibitor of phosphatidylinositol-3-kinase.

Powis et al (1994) Cancer Res 54(9)

PubMedID [8162590](#)

Wortmannin, a widely used phosphoinositide 3-kinase inhibitor, also potently inhibits mammalian polo-like kinase.

Liu et al (2005) Chem Biol 12(1)

PubMedID

15664519
