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DATASHEET

SC 66

Product overview

Name	SC 66
Cat No	HB1252
Description	Akt inhibitor
Biological action	Inhibitor
Purity	>98%
Customer comments	*Good. Happy with the product* **Verified customer, University of Brighton**

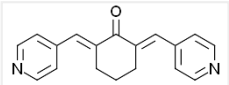
Biological Data

Biological description	Akt (PKB) inhibitor. Binds at an allosteric site. Interferes with PH domain-PIP3 binding and enhances Akt ubiquitination. Blocks mTORC1/2, decreases glucose uptake and cell viability. Shows anti-tumor actions.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (75mM) or ethanol (75mM)
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	(2*E*,6*E*)-2,6-*Bis*(4-pyridinylmethylene)cyclohexanone
Molecular Weight	276.33
Chemical structure	
Molecular Formula	$C_{18}H_{16}N_2O$
CAS Number	871361-88-5
PubChem identifier	6018993
SMILES	O=C(/C(CCC3)=C/C2=CC=NC=C2)/C3=C/C1=CC=NC=C1
InChiKey	CYVVJSKZRBZHAV-UNZYHPAISA-N

References

Deactivation of Akt by a small molecule inhibitor targeting pleckstrin homology domain and facilitating Akt ubiquitination.

Jo H *et al* (2011) Proc Natl Acad Sci U S A 108(16)
PubMedID 21464312

AKT inhibitors promote cell death in cervical cancer through disruption of mTOR signaling and glucose uptake.

Rashmi R *et al* (2014) PLoS One 9(4)
PubMedID 24705275