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DATASHEET

PHT 427

Product overview

Name	PHT 427
Cat No	HB1251
Biological action	Inhibitor
Purity	>98%
Description	Akt / PDPK1 inhibitor

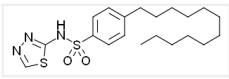
Biological Data

Biological description	Akt (PKB) and phosphatidylinositol 3-kinase (PDPK1) inhibitor (K_i values are 2.7 and 5.2 μ M respectively). Binds at the pleckstrin homology (PH) domain of AKT and PDPK1. Shows anti-tumor and apoptotic actions.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (100mM)
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	4-Dodecyl-N-1,3,4-thiadiazol-2-yl-benzenesulfonamide
Molecular Weight	409.61
Chemical structure	
Molecular Formula	$C_{20}H_{31}N_3O_2S_2$
CAS Number	1191951-57-1
PubChem identifier	44240850
SMILES	<chem>O=S(C(C=C1)=CC=C1CCCCCCCCCCCC)(NC2=NN=CS2)=O</chem>
InChiKey	BYWWNRBKPCPJMG-UHFFFAOYSA-N

References

In vitro and in vivo activity of novel small-molecule inhibitors targeting the pleckstrin homology domain of protein kinase B/AKT.

Moses SA *et al* (2009) Cancer Res 69(12)

PubMedID [19491272](#)

Molecular pharmacology and antitumor activity of PHT-427, a novel Akt/phosphatidylinositide-dependent protein kinase 1 pleckstrin homology domain inhibitor.

Meuillet EJ *et al* (2010) Mol Cancer Ther 9(3)

