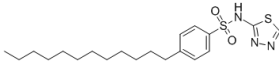


Product Name	: PHT-427	
Synonyms	: PHT 427;PHT427	
Cat No.	: M10660	
CAS Number	: 1191951-57-1	
Molecular Formula	: C ₂₀ H ₃₁ N ₃ O ₂ S ₂	
Formula Weight	: 409.61	
Chemical Name	: Benzenesulfonamide, 4-dodecyl-N-1,3,4-thiadiazol-2-yl-	
Description	PHT-427 is a small-molecule Akt inhibitor that binds selectively to the PH domain of AKT with K _i of 2.4 μM, inhibits phospho-Ser473-AKT in Panc-1 cells with IC ₅₀ of 6.3 μM; decreases AKT activation and causes apoptosis at low micromolar concentrations in Panc-1 and MiaPaCa-2 pancreatic cancer cell lines; inhibits AKT and its downstream targets in cells, exhibits good antitumor activity in pancreatic cancer cell xenografts in immunocompromised mice.	
Pathway	: Cytoskeleton/Cell Adhesion Molecules	
Target	: Akt	
Receptor	: Akt;PDK1	
Solubility	: 10 mM in DMSO	
SMILES	: O=S(C1=CC=C(CCCCCCCCCCCC)C=C1)(NC2=NN=CS2)=O	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1. Moses SA, et al. Cancer Res. 2009 Jun 15;69(12):5073-81. | 2. Meuillet EJ, et al. Mol Cancer Ther. 2010 Mar;9(3):706-17. | 3. Dickinson SE, et al. Cancer Prev Res (Phila). 2016 Mar;9(3):215-24. | 4. Kobes JE, et al. Pancreas. 2016 Sep;45(8):1158-66.