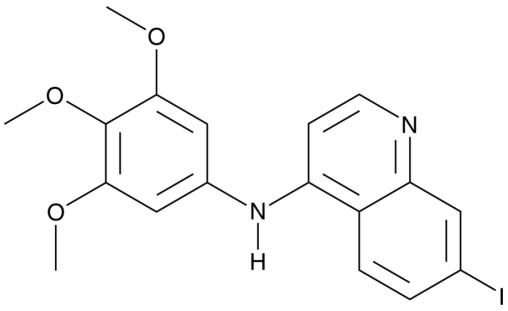
Product Data Sheet

Product Name: PKN3 Inhibitor Compound 16
Cat. No.: GC92014

Chemical Properties

Cas. No.	2361545-75-5		
Chemical Name	7-iodo-N-(3,4,5-trimethoxyphenyl)-4-quinolinamine		
SMILES	IC1=CC2=NC=CC(NC3=CC(OC)=C(OC)C(OC)=C3)=C2C=C1		
Formula	$C_{18}H_{17}IN_2O_3$	M.Wt	436.2
Solubility	Acetonitrile: Slightly soluble: 0.1-1 mg/ml,DMSO: Sparingly soluble: 1-10 mg/ml	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

PKN3 inhibitor compound 16 is an inhibitor of serine/threonine protein kinase N3 (IC_{50} = 14 nM).[1] It is selective for this kinase over a panel of 234 kinases but does inhibit serine/threonine protein kinase NLK, activin receptor type 1 (ACTR1), and receptor-interacting serine/threonine kinase 2 (RIPK2) at 1 ?M, as well as cyclin G-associated kinase (GAK; IC_{50} = 74 nM in a bioluminescence resonance energy transfer (BRET) assay).[1,2] PKN3 inhibitor compound 16 inhibits viral replication in dengue

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virus-infected Huh7 cells (EC_{50} = 3.6 ?M) without inducing cell death with a 50% cytotoxic concentration (CC_{50}) value of >10 ?M.[3]

References:

[1]. Asquith, C.R.M., Temme, L., East, M.P., et al.Identification of 4-anilinoquin(az)oline as a cell-active protein kinase novel 3 (PKN3) inhibitor chemotypeChemMedChem17(12)e202200161(2022).
[2]. Asquith, C.R.M., Laitinen, T., Bennett, J.M., et al.Design and analysis of the 4-anilinoquin(az)oline kinase inhibition profiles of GAK/SLK/STK10 using quantitative structure-activity relationshipsChemMedChem15(1)26-49(2020).
[3]. Saul, S., Pu, S.-Y., Zuercher, W.J., et al.Potent antiviral activity of novel multi-substituted 4-anilinoquin(az)olinesBioorg. Med. Chem. Lett.30(16)127284(2020).

Caution: Product has not been fully validated for medical applications. For research use only.
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