

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

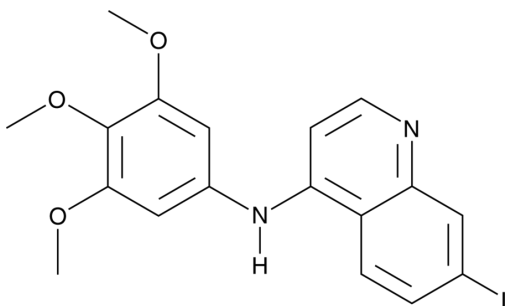
Formula $C_{18}H_{17}IN_2O_3$ M.Wt 436.2

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 μM, 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

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

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virus-infected Huh7 cells ($EC_{50} = 3.6 \text{ } \mu\text{M}$) without inducing cell death with a 50% cytotoxic concentration (CC_{50}) value of $>10 \text{ } \mu\text{M}$.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 chemotype ChemMedChem 17(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 relationships ChemMedChem 15(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)olines Bioorg. Med. Chem. Lett. 30(16)127284(2020).

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