
Product Data Sheet

Product Name: P21d hydrochloride

Cat. No.: GC50331

Chemical Properties

Cas. No.

SMILES Cl.C1=CC(=NC2=NC(=CN3C(=CN=C23)C2=CCN=C2)C2CC2)C=CC(=C1)C(=O)N1CCOCC1

Formula $C_{23}H_{22}FN_7O_2 \cdot HCl$ M.Wt 483.93

Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$

General For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure

Background

Potent and selective breast tumor kinase (Brk) inhibitor ($IC_{50} = 30$ nM). Exhibits >650-fold selectivity for Brk over Aurora B kinase and Lck. Downregulates SNAIL protein, restores E-cadherin expression and suppresses migration in breast cancer cells. Also active in vivo and orally bioavailable.

Zeng et al (2011) Discovery of novel imidazo[1,2-a]pyrazin-8-amines as Brk/PTK6 inhibitors. *Bioorg.Med.Chem.Lett* 21 5870 PMID:21855335 | Ito et al (2016) PTK6 inhibition suppresses metastases of triple-negative breast cancer via SNAIL-dependent E-cadherin regulation. *Cancer Res.* 76 4406 PMID:27302163

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

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