

Product Name : BPR1K653 hydrochloride

Synonyms : BPR1K 653

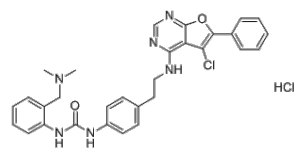
Cat No. : M10669

CAS Number : 1192754-07-6

Molecular Formula : C₃₀H₃₀Cl₂N₆O₂

Formula Weight : 577.51

Chemical Name : 1-(4-(2-((5-chloro-6-phenylfuro[2,3-d]pyrimidin-4-yl)amino)ethyl)phenyl)-3-(2-((dimethylamino)methyl)phenyl)urea hydrochloride



Description : A novel potent Aurora kinase inhibitor that inhibits Aurora-A and Aurora-B with IC₅₀ of 24 nM and 45 nM, respectively; exhibits less potency (IC₅₀>10 uM) in inhibiting the activity of ALK, CHK1, cMET, EGFR, FLT3, VEGFR1 and VEGFR2; induces concentration-dependent decrease in phosphor-Aurora-A, -B and -C kinase in HCT116 cells, inhibits the proliferation of multiple human cancer cell lines regardless of their tissue origins and p53 status (IC₅₀s<0.5 uM); shows equal potency in inhibiting the growth of the multiple-drug resistance protein (MDR1) -expressing cancer cells; also is effective toward MDR1-expressing tumor xenograft.

Pathway : Cell Cycle/DNA Damage

Target : Aurora Kinase

Receptor : Aurora Kinase

Solubility : —

SMILES : O=C(NC1=CC=CC=C1CN(C)C)NC2=CC=C(CCN(C)C=C4C(OC(C5=CC=CC=C5)=C4Cl)=NC=N3)C=C2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Cheung CH, et al. PLoS One. 2011;6(8):e23485.