

Product Name : BAY-1125976

Synonyms : BAY1125976

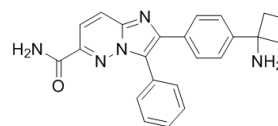
Cat No. : M11680

CAS Number : 1402608-02-9

Molecular Formula : C₂₃H₂₁N₅O

Formula Weight : 383.45

Chemical Name : Imidazo[1,2-b]pyridazine-6-carboxamide, 2-[4-(1-aminocyclobutyl)phenyl]-3-phenyl-



Description : A potent and highly selective, allosteric AKT1/2 inhibitor with IC₅₀ of 5.2/18 nM at 10 μM ATP; binds to active AKT1 with K_d of 2.7 nM and inactive AKT1 with K_d of 1.3 nM. displays >86-fold less potent against AKT3; inhibits the phosphorylation of AKT1 at T308 and S473 (IC₅₀=0.9 and 1.1 nM, respectively), PRAS40 at T246 and 4EBP1 at T70; targets tumors displaying PI3K/AKT/mTOR pathway activation, inhibits cell proliferation in a broad panel of human cancer cell lines, particularly in breast and prostate cancer cell lines expressing estrogen or androgen receptors; exhibits strong in vivo patient-derived xenograft models. Solid Tumors Phase 1 Clinical

Pathway : Cytoskeleton/Cell Adhesion Molecules

Target : Akt

Receptor : Akt

Solubility : DMSO: 10.33 mg/mL

SMILES : C1CC(C1)(C2=CC=C(C(=C2)C3=C(N4C(=N3)C=CC(=N4)C(=O)N)C5=CC=CC=C5)N

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Politz O, et al. Int J Cancer. 2017 Jan 15;140(2):449-459.