

Product Name : A66

Synonyms : A 66; A-66

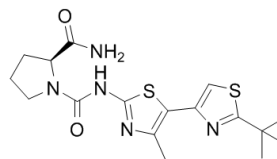
Cat No. : M10568

CAS Number : 1166227-08-2

Molecular Formula : C₁₇H₂₃N₅O₂S₂

Formula Weight : 393.52

Chemical Name : 1,2-Pyrrolidinedicarboxamide, N1-[2-(1,1-dimethylethyl)-4'-methyl[4,5'-bithiazol]-2'-yl]-, (2S)-



Description : A66 (p110α inhibitor A66) is a potent, highly specific p110α inhibitor with IC₅₀ of 32, 30 and 43 nM for wt p110α, p110α E545K and p110α H1047R, respectively; displays little to no activity against p110β/γ/δ (IC₅₀>3,000 nM), as well as class-III PI3Ks, mTOR, DNA-PK, and PI4Kα/β; induces reduction in focus formation CEF by the highly transforming iSH2 mutants KS459delIN, DKRMNS560del, and K379E, blocks PI3K signalling and tumour growth in certain cell types.

Pathway : PI3K/Akt/mTOR signaling

Target : PI3K

Receptor : p110α;p110γ;p110δ;PI3Kβ

Solubility : 10 mM in DMSO

SMILES : O=C(N1[C@H](C(N)=O)CCC1)NC2=NC(C)=C(C3=CSC(C(C)(C)C)=N3)S2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Jamieson S, et al. Biochem J. 2011 Aug 15;438(1):53-62. | 2. Sun M, et al. Proc Natl Acad Sci U S A. 2010 Aug 31;107(35):15547-52. | 3. Weigelt B, et al. Clin Cancer Res. 2013 Jul 1;19(13):3533-44.