

Product Name : AMG319

Synonyms : AMG-319;AMG 319

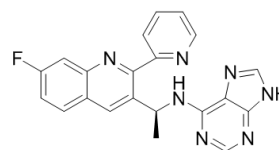
Cat No. : M12313

CAS Number : 1608125-21-8

Molecular Formula : C₂₁H₁₆N₇

Formula Weight : 385.40

Chemical Name : 3-Quinolinemethanamine, 7-fluoro- α -methyl-N-9H-purin-6-yl-2-(2-pyridinyl)-, (α S)-



Description : AMG319 (AMG-319) is a potent and selective PI3K δ inhibitor with biochemical IC₅₀ of 18 nM, displays >80-fold selectivity over PI3K α /β/γ (IC₅₀=3300/2700/850 nM); exhibits an IC₅₀ of 16 nM in human whole blood assay (HWB), excellent selectivity over a large panel of protein kinases; inhibits anti-IgM induced AKT phosphorylation (Ser473) in mouse B cells with IC₅₀ of 1.5 nM, inhibits anti-IgM/CD40L-induced B cell proliferation with IC₅₀ of 8.6 nM; exhibits in vivo efficacy in rodent disease models of inflammation. Solid Tumors Phase 2 Clinical

Pathway : PI3K/Akt/mTOR signaling

Target : PI3K

Receptor : PI3K α ; PI3K β ; PI3K γ ; PI3K δ

Solubility : 10 mM in DMSO

SMILES : C[C@H](NC1=C2N=CNC2=NC=N1)C3=CC4=CC=C(F)C=C4N=C3C5=NC=CC=C5

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Cushing TD, et al. J Med Chem. 2015 Jan 8;58(1):480-511.