

AMG 511

Chemical Properties

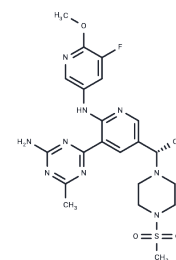
CAS No. : 1253573-53-3

Formula: C₂₂H₂₈FN₉O₃S

Molecular Weight: 517.58

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	AMG 511 is a potent and orally available pan inhibitor of class I PI3Ks (Kis of 4 nM, 6 nM, 2 nM, and 1 nM for PI3K α , β , δ , and γ , respectively), exhibiting anti-tumor activity in a mouse glioblastoma xenograft model[1]. AMG 511 significantly suppresses PI3K signaling as indicated by a decrease in p-Akt (Ser473).
Targets(IC50)	PI3K
In vitro	AMG 511 inhibits AKT (Ser473) phosphorylation in U87 malignant glioma (MG) cells with an IC50 of 4 nM[1].
In vivo	AMG 511 shows excellent in vivo efficacy and pharmacokinetic profile[1]. AMG 511 potently blocks the targeted PI3K pathway in a mouse liver pharmacodynamic model (3-30 mg/kg; p.o.). And it inhibits tumor growth in a U87 MG glioblastoma xenograft model (3-30 mg/kg; p.o.; daily; for 12 days)[1].

Solubility Information

Solubility	DMSO: 33.33 mg/mL (64.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9321 mL	9.6603 mL	19.3207 mL
5 mM	0.3864 mL	1.9321 mL	3.8641 mL
10 mM	0.1932 mL	0.966 mL	1.9321 mL
50 mM	0.0386 mL	0.1932 mL	0.3864 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mark H Norman, et al. Selective Class I Phosphoinositide 3-kinase Inhibitors: Optimization of a Series of Pyridyltriazines Leading to the Identification of a Clinical Candidate, AMG 511. J Med Chem. 2012 Sep 13;55(17): 7796-816.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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