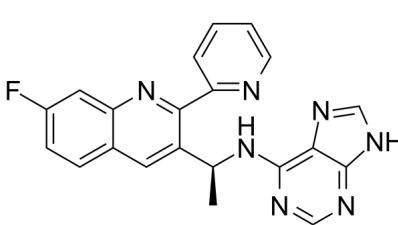


Certificate of Analysis

Catalog Number	BP22284
Product Name	AMG319

Physical and Chemical Properties

CAS No.	1608125-21-8
Chemical Formula	C ₂₁ H ₁₆ N ₇
Molecular Weight	385.406
Solubility	H ₂ O: <1 mg/mL DMSO: 71 mg/mL (184.2 mM); Ethanol: 71 mg/mL (184.2 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	 <p>The chemical structure of AMG319 is a complex molecule featuring a quinoline core. It has a fluorine atom at the 6-position of the quinoline ring. A pyridine ring is attached to the 4-position of the quinoline. A 1H-imidazole ring is attached to the 3-position of the quinoline via its nitrogen atom. A methyl group is attached to the 2-position of the quinoline.</p>

Product Information

Description	AMG319 is a potent and selective PI3Kδ inhibitor with IC ₅₀ of 18 nM, >47-fold selectivity over other PI3Ks. Phase 2.
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Targets&IC50	PI3Kδ:18 nM
In vitro	AMG319 inhibits anti-IgM/CD40L-induced B cell proliferation with IC50 of 8.6 nM and reduces pAkt level with IC50 of 1.5 nM. AMG319 also inhibits anti-IgD-induced CD-69 expression in HWB.
In vivo	In female Lewis rats, AMG319 (3 mg/kg, p.o.) inhibits the KLH-induced inflammatory response by 88%. In the transgenic (IgMm) mice, AMG319 (, p.o.) inhibits in vivo pAKT with IC50 of 1.9 nM.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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