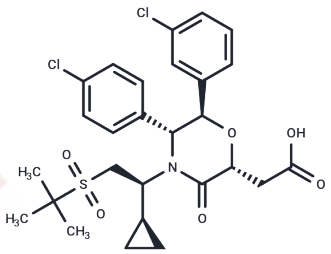
Data Sheet (Cat.No.T14203)

TargetMol

AM-8735

Chemical Properties



CAS No. : 1429386-01-5

Formula: C27H31Cl2NO6S

Molecular Weight: 568.51

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	AM-8735 is an inhibitor of MDM2 (IC50: 25 nM).
Targets(IC50)	Mdm2,E1/E2/E3 Enzyme,MDM-2/p53
In vitro	AM-8735 exhibits a dose-dependent increase of p21 mRNA, a direct transcriptional readout of p53 activity, in HCT116 p53wt cells (IC50=160 nM)[1]. AM-8735 displays substantial growth inhibition of wild-type p53 cells (IC50=63 nM) and no growth inhibition of p53-deficient cells (IC50>25 μM).
In vivo	AM-8735 exhibits potent antitumor properties in the SJSA-1 osteosarcoma xenograft model, achieving an effective dose (ED50) of 41 mg/kg[1]. Additionally, AM-8735 significantly induces p21 mRNA expression in a time- and concentration-dependent manner within SJSA-1 osteosarcoma tumors, as demonstrated through in vivo pharmacodynamic assays.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.759 mL	8.7949 mL	17.5898 mL
5 mM	0.3518 mL	1.759 mL	3.518 mL
10 mM	0.1759 mL	0.8795 mL	1.759 mL
50 mM	0.0352 mL	0.1759 mL	0.3518 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

Gonzalez AZ, et al. Selective and potent morpholinone inhibitors of the MDM2-p53 protein-protein interaction. J Med Chem. 2014 Mar 27;57(6):2472-88.

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