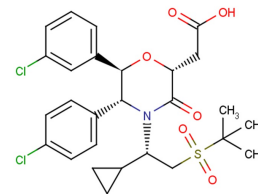


AM-8735

Chemical Properties

CAS No.:	1429386-01-5
Formula:	C ₂₇ H ₃₁ Cl ₂ NO ₆ S
Molecular Weight:	568.51
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	AM-8735 is an inhibitor of MDM2 (IC ₅₀ : 25 nM).
Targets(IC ₅₀)	MDM2: 25 nM
In vitro	AM-8735 exhibits a dose-dependent increase of p21 mRNA, a direct transcriptional readout of p53 activity, in HCT116 p53wt cells (IC ₅₀ =160 nM)[1]. AM-8735 displays substantial growth inhibition of wild-type p53 cells (IC ₅₀ =63 nM) and no growth inhibition of p53-deficient cells (IC ₅₀ >25 μM).
In vivo	AM-8735 shows excellent antitumor activity in the SJSA-1 osteosarcoma xenograft model with an ED ₅₀ of 41 mg/kg[1]. AM-8735 also demonstrates significant time and concentration dependent p21 mRNA induction in vivo in a pharmacodynamic assay in SJSA-1 osteosarcoma tumors.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.759 mL	8.795 mL	17.59 mL
5 mM	0.352 mL	1.759 mL	3.518 mL
10 mM	0.176 mL	0.879 mL	1.759 mL
50 mM	0.035 mL	0.176 mL	0.352 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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