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**Product Data Sheet**


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Product Name: AM-8735  
 Cat. No.: GC33356

**Chemical Properties**

Cas. No. 1429386-01-5

SMILES O=C(N1[C@H](CS(=O)(C(C)(C)C)=O)C2CC2)[C@@H](CC(O)=O)O[C@H](C3=CC=CC(Cl)=C3)[C@H]1C4=CC=C(Cl)C=C4

Formula C<sub>27</sub>H<sub>31</sub>Cl<sub>2</sub>NO<sub>6</sub>S M.Wt 568.51

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

**Protocol****Cell experiment:**

SJSA-1 cells are treated with AM-8735 for 16 hours in the presence of 10% human serum. Cell proliferation is measured by the Click-iT EdU assay[1].

**Animal experiment:**

Rats[1] SJSA-1 cells (5 × 10<sup>6</sup>) are implanted subcutaneously into female athymic nude mice. AM-8735 is administered by oral gavage (as a solution in 15% HPβCD, 1% Pluronic F68, pH 8) 5, 25, 50, and 100 mg/kg q.d. for a period of 2 weeks, and tumor volume is quantified[1].

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### References:

[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.

### Background

AM-8735 is a potent and selective MDM2 inhibitor with an IC<sub>50</sub> of 25 nM.

AM-8735 displays substantial growth inhibition of wild-type p53 cells (IC<sub>50</sub>=63 nM) and no growth inhibition of p53-deficient cells (IC<sub>50</sub>>25 μM). AM-8735 exhibits a dose-dependent increase of p21 mRNA, a direct transcriptional readout of p53 activity, in HCT116 p53wt cells (IC<sub>50</sub>=160 nM)[1].

AM-8735 also demonstrates significant time and concentration dependent p21 mRNA induction in vivo in a pharmacodynamic assay in SJSA-1 osteosarcoma tumors. AM-8735 shows excellent antitumor activity in the SJSA-1 osteosarcoma xenograft model with an ED<sub>50</sub> of 41 mg/kg[1].

[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.

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