

(±)-AMG 487

Chemical Properties

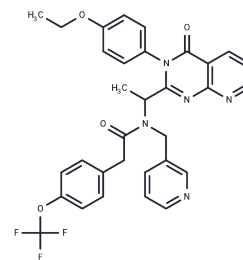
CAS No. :

Formula: C32H28F3N5O4

Molecular Weight: 603.59

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 487 is an effective and selective antagonist of chemokine receptor 3. AMG 487 inhibited CXCR3-mediated cell migration induced by three CXCR3 chemokines, IP-10, ITAC and MIG (IC50: 8, 15 and 36 nM, respectively).
Targets(IC50)	Others,CXCR
In vitro	AMG487 blocked in vitro lymphocyte migration mediated by CXCL9, CXCL10 or CXCL11. AMG487 did not affect the proliferation of 66.1 tumor cells at 24, 48 or 72 hours under normal or serum-free growth conditions. It did inhibit the migration of the tumor cells to CXCL9 by 70% [3].
In vivo	AMG487 displayed an inhibitory effect on experimental lung metastasis. Treatment with bleomycin via intra-tracheal installation after tracheostomy induced cellular recruitment into the lungs in the lungs of mice. All but the lowest dose AMG 487 treatment group showed a significant reduction in cellular infiltration into the lungs ($p < 0.005$ as determined by Student's t-test). Subcutaneously administration with AMG 487 (3 mg/kg, twice daily) showed migration inhibition results similar to those of CXCR3 deficient mice ($n = 8-12$ mice per group). The highly malignant murine mammary tumor cell line 66.1 was pretreated with AMG 487 and hence i.v. injected into immune-competent female mice [2][3].

Solubility Information

Solubility	DMSO: <60.36 mg/mL, 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	1.6568 mL	8.2838 mL	16.5675 mL
5 mM	0.3314 mL	1.6568 mL	3.3135 mL
10 mM	0.1657 mL	0.8284 mL	1.6568 mL
50 mM	0.0331 mL	0.1657 mL	0.3314 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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