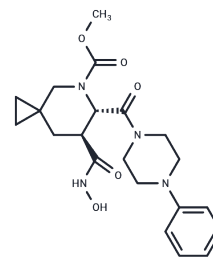


Aderbasib

Chemical Properties

CAS No. :	791828-58-5
Formula:	C ₂₁ H ₂₈ N ₄ O ₅
Molecular Weight:	416.47
Storage:	Store at low temperature
	Pure form: -20°C for 3 years In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Aderbasib (INC007839) is an orally active and potent ADAM10 and ADAM17 inhibitor with antitumor activity, used for studying cancer and cardiovascular diseases.
Targets(IC50)	MMP, Immunology/Inflammation related
In vitro	Aderbasib inhibits the shedding of all EGFR ligands by inhibiting ADAM10 and ADAM17. Aderbasib significantly reduced soluble HB-EGF levels in tumor tissue. [1]
In vivo	Aderbasib (60 mg/kg/day, tube feeding) combined with EP (0.5 mg/kg, ip) or PEPDG278D (4 mg/kg, ip) inhibited the growth of HCT116 and HT29 tumors. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (192.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.92 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4011 mL	12.0057 mL	24.0113 mL
5 mM	0.4802 mL	2.4011 mL	4.8023 mL
10 mM	0.2401 mL	1.2006 mL	2.4011 mL
50 mM	0.048 mL	0.2401 mL	0.4802 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

Yang L, et al. Depleting receptor tyrosine kinases EGFR and HER2 overcomes resistance to EGFR inhibitors in colorectal cancer. *J Exp Clin Cancer Res.* 2022 Jun 2;41(1):184.

Fei Yuan, et al. ADAM17 is an essential attachment factor for classical swine fever virus. *PLoS Pathog.* 2021 Mar 8; 17(3):e1009393.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481