

Patritumab

Chemical Properties

CAS No. : 1262787-83-6

Formula:

Molecular Weight: 146.97 kDa

Store at low temperature

Storage: -20°C for 1 year

Actual storage temperature shall be subject to the COA.

Patritumab

Biological Description

Description	Patritumab (U3-1287) is an anti-HER3 monoclonal antibody with potential antitumor activity and inhibits phosphorylation of EGFR, HER2, HER3, ERK, and AKT. Patritumab promotes apoptosis and inhibits proliferation in non-small cell lung cancer.
Targets(IC50)	ERK,EGFR,Akt,HER,PARP,Survivin
In vitro	Patritumab targets the extracellular domain (ECD) of HER3 and induces apoptosis in DiFi-HRG4 cells (10 µg/mL; 5 days)[1]. Patritumab (10 µg/mL; 6 h) markedly inhibits the phosphorylation of HER3 and AKT in DiFi-HRG4 cells without affecting that of ERK[1]. Additionally, Patritumab (10 µg/mL; 48 h) induces the cleavage of PARP, accompanied by both up-regulation of BIM and down-regulation of survivin expression[1].
In vivo	In a DiFi-HRG tumor xenografts model in mice, Patritumab (1 mg/mouse; intraperitoneal; twice a week for 4 weeks) combines with 1 mg Cetuximab and restores Cetuximab sensitivity[1]. Heregulin produced by colorectal cancer tumors harboring wild-type KRAS induces Cetuximab resistance, and combination therapy with cetuximab and patritumab overcomes such resistance in vivo[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0068 mL	0.034 mL	0.068 mL
5 mM	0.0014 mL	0.0068 mL	0.0136 mL
10 mM	0.0007 mL	0.0034 mL	0.0068 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 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

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