

Robatumumab

Chemical Properties

CAS No. :	934235-44-6
Formula:	
Molecular Weight:	145.56 kDa
Storage:	Store at low temperature -20°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Robatumumab (Sch 717454) is a fully human anti-insulin-like growth factor receptor type 1 (IGF-1R) monoclonal antibody with antitumor and antiproliferative activity. Robatumumab is used in the study of ovarian cancer.
Targets(IC50)	IGF-1R
In vitro	Robatumumab (0.02-80 nM; 0.5 or 4 hours) inhibited basal and IGF-I-induced phosphorylation of IGF-IR and IRS-1 in SK-N-FI cells by decreasing IGF-IR expression levels. [2]
In vivo	Robatumumab (i.v.; 0.04 or 0.1 mg/mouse; twice weekly; 18 days total) reduced SK-N-FI tumor growth in a xenograft model. [2] Robatumumab (i.v.; 0.02-0.5 mg/mouse; twice weekly; 35 days) was effective in inhibiting osteosarcoma expansion in a xenograft model. [2] Robatumumab (i.v.; 0.1 or 0.5 mg/mouse; twice weekly; 14 days) significantly inhibited the proliferation of SJCRH30 and RD rhabdomyosarcoma cells in a xenograft model. [2] Robatumumab (intravenous; 0.1 or 0.5 mg/mouse; twice weekly; 2 weeks) effectively blocked the growth of pediatric tumor cells in vivo. [2] Robatumumab (i.v.; 0.5 mg/mouse; single dose; day 11 post-vaccination) regulates blood vessel formation by exerting anti-angiogenic effects. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0344 mL	0.0687 mL
5 mM	0.0014 mL	0.0069 mL	0.0137 mL
10 mM	0.0007 mL	0.0034 mL	0.0069 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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