

Emactuzumab

Chemical Properties

CAS No. : 1448221-67-7

Formula:

Molecular Weight: 144.4 kDa

Storage: Store at low temperature

-20°C for 1 year

Actual storage temperature shall be subject to the COA.

Emactuzumab

Biological Description

Description	Emactuzumab(RG 7155) is a monoclonal antibody against colony-stimulating factor-1 receptor targeting tumor-associated macrophages (TAMs) Emactuzumab has antitumor activity and inhibits activation of colony-stimulating factor 1 receptor (CSF1R) Emactuzumab has a high affinity for CSF-1R with a K_i value of 0.2 nM. Emactuzumab blocks CSF-1R dimerization and can be used to study cancers such as diffuse tenosynovial giant cell tumor (dt-GCT).
Targets(IC50)	c-Fms,TAM Receptor
In vitro	RG7155 (30 $\mu\text{g}/\text{mL}$; 6 days) induces cell death of in vitro-differentiated human M2-like macrophages.[2] Inducing cell death, RG7155 (0-10 $\mu\text{g}/\text{mL}$; 7 days) inhibited the viability of CSF-1-differentiated macrophages with an IC50 of 0.3 nM.[2] Emactuzumab, with a high affinity binding to human and cynomolgus CSF-1R ($K_d = 0.2$ nM), effectively prevents CSF-1R dimerization.[2]
In vivo	Emactuzumab (0.1, 1, 10, 30 and 100 mg/kg; i.v.; once; male cynomolgus monkey) increased CSF-1 concentration in serum.[2] RG7155 (0, 30, and 100 mg/kg; i.v.; once weekly; for 2 weeks; male and female cynomolgus) Efficiently reduced CSF-1R and CD68+163+ macrophages in the liver (Kupffer cells) and colon of cynomologus monkeys.[2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0346 mL	0.0693 mL
5 mM	0.0014 mL	0.0069 mL	0.0139 mL
10 mM	0.0007 mL	0.0035 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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