

Imgatuzumab

Chemical Properties

CAS No. : 959963-46-3

Formula:

Molecular Weight: 145.0 kDa

Store at low temperature

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Imgatuzumab (RG 7160; GA201) is a humanized, glycoengineered IgG1 monoclonal antibody targeting the epidermal growth factor receptor (EGFR). This product inhibits EGFR-mediated signaling (such as MAPK and PI3K pathways) by blocking EGF binding and inducing receptor internalization. As a glycoengineered antibody, Imgatuzumab features enhanced affinity for Fc gamma R11a, resulting in potent antibody-dependent cellular cytotoxicity (ADCC). It is used to research EGFR-overexpressing solid tumors and demonstrates synergistic effects when combined with chemotherapeutic agents.
Targets(IC50)	EGFR
In vitro	Imgatuzumab specifically binds EGFR and exhibits potent ADCC activity in A549 and HCT116 cells. Co-treatment with Gemcitabine, Cisplatin, or Paclitaxel, or pretreatment with Dexamethasone, does not impair Imgatuzumab-mediated ADCC; instead, combination therapies enhance overall anti-tumor efficacy [1].
In vivo	Imgatuzumab significantly inhibits tumor growth in lung and colorectal cancer xenograft mouse models. Combination with Gemcitabine or Paclitaxel leads to enhanced tumor regression and prolonged survival compared to monotherapy, demonstrating synergistic anti-tumor efficacy [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0345 mL	0.069 mL
5 mM	0.0014 mL	0.0069 mL	0.0138 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

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

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