

## Ganitumab

## Chemical Properties

CAS No. :	905703-97-1
Formula:	
Molecular Weight:	145.70 kDa
Storage:	Store at low temperature
	-20°C for 1 year
	Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Ganitumab (AMG 479) is a highly potent monoclonal antibody targeting the type 1 insulin-like growth factor receptor (IGF1R). Recognized for binding IGF1R at low concentrations with a KD value of 0.22 nM, Ganitumab inhibits IGF1R interactions with IGF1 and IGF2 in mice, making it useful for cancer research.
Targets(IC50)	IGF-1R
In vitro	Ganitumab (AMG 479; 0.032-500 nM; 10 minutes; cT26 cells) binds to mIGF1R, inhibiting its activation mediated by IGF1 and IGF2[1].
In vivo	In naive and tumor-bearing mice, ganitumab (AMG 479; 1 mg/dose; i.p.) inhibited IGF1-induced activation of mIGF1R in mouse lung[1]. In female thymusless nude mice, ganitumab (300 µg/dose; i.p.) reduced peripheral blood neutrophils[1]. In male athymic nude mice, ganitumab (300 µg/dose; i.p.) resulted in impaired glucose tolerance and increased serum mGH, mIGF1, and mIGFBP3[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0343 mL	0.0686 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.

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