

Garadacimab

Chemical Properties

CAS No. :	2162134-62-3
Formula:	
Molecular Weight:	146.5 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	Garadacimab (CSL312) is a potent whole-human IgG4 monoclonal antibody targeting activation factor XII (FXIIa). Garadacimab can be used to study hereditary angioedema.
Targets(IC50)	Factor Xa
In vitro	Garadacimab (CSL312) demonstrates high affinity to activated β FXIIa with a KD of 140 pM. In an activated partial thromboplastin time (aPTT) assay with human plasma, Garadacimab exhibits potency. Notably, it displays high selectivity over a panel of relevant human serine proteases, including FVIIa, FIXa, FXa, FXIa, kallikrein, tissue plasminogen activator, activated protein C, and urokinase plasminogen activator[2].
In vivo	In male and female cynomolgus monkeys, Garadacimab (0.5, 1, and 3 mg/kg i.v. and 6 and 20 mg/kg s.c. over 8 weeks) shows a dose-dependent increase in plasma concentrations[1]. Garadacimab exhibits an inhibitory effect on FXII-mediated kallikrein activity. Moreover, it induces a clear dose-dependent prolongation of activated partial thromboplastin time (aPTT) with no associated effect on the prothrombin time[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0068 mL	0.0341 mL	0.0683 mL
5 mM	0.0014 mL	0.0068 mL	0.0137 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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