

## Frovocimab

## Chemical Properties

CAS No. : 1643672-70-1

Formula:

Molecular Weight: 146.38 kDa

Storage: Store at low temperature  
-20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Frovocimab (LY 3015014) is a humanized IgG4 monoclonal antibody to Subtilisin/Kexin Protein Converting Enzyme Type 9 (PCSK9) that binds to the catalytic domain of PCSK9 and lowers low-density lipoprotein cholesterol (LDL-C) in patients with hypercholesterolemia. Frovocimab is used in the study of hypercholesterolemia. Frovocimab is used to study hypercholesterolemia.
Targets(IC50)	Others
In vitro	Frovocimab is able to bind to the intact, untruncated PCSK9 protein. Its specific binding to intact PCSK9 is due to its binding epitope, specifically the linear sequence of amino acids 160-181 in the catalytic structural domain of human PCSK9, which is not present in the truncated form of PCSK9. Frovocimab inhibits PCSK9 binding to LDLR while allowing normal protein hydrolytic cleavage to occur. After cleavage, inactive truncated PCSK9 is released from Frovocimab. [1]
In vivo	Frovocimab, when administered intravenously at a dose of 10 mg/kg, significantly increased PCSK9 accumulation in mice expressing a non-cleavable human PCSK9 variant, resulting in a shorter duration of LDL lowering and accelerated clearance of LDL from the serum. [1] Frovocimab was effective in lowering LDL cholesterol levels in monkeys when administered intravenously at a dose of 5 mg/kg and, unlike other PCSK9 monoclonal antibodies, it did not cause accumulation of intact PCSK9 in serum. [1]

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0068 mL	0.0342 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

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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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