

## Rozanolixizumab

## Chemical Properties

CAS No. : 1584645-37-3

Formula:

Molecular Weight: 145.19 kDa

Rozanolixizumab

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

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Rozanolixizumab (RYSTIGGO) is a high-affinity humanized immunoglobulin G4 monoclonal antibody targeting Fc receptors (FcRn) in human newborns for the study of pathogenic IgG in autoimmune and alloimmune diseases.
Targets(IC50)	Others,TNF
In vitro	Demonstrating similar affinity at both pH 6.0 (Kd 23 pM and 25 pM for human and cynomolgus monkey, respectively) and pH 7.4 (34 pM and 53 pM for human and cynomolgus monkey, respectively), Rozanolixizumab binds to human FcRn and cynomolgus monkey FcRn[1].In a dose-dependent manner, Rozanolixizumab is observed to inhibit the recycling of human IgG by human FcRn-transfected MDCK cells, with an IC50 of 0.41 nM. The recycling of IgG is similarly inhibited in cynomolgus monkey FcRn-transfected MDCK cells (IC50 0.98 nM)[1].Additionally, Rozanolixizumab causes an increase in intracellular IgG AF647[1].
In vivo	Demonstrating non-linear pharmacokinetics indicative of target-mediated drug disposition, intravenous (IV) dosing of rozanolixizumab in cynomolgus monkeys showed that single IV doses (30 mg/kg) reduced plasma IgG concentration by 69% by Day 7 post-administration. Throughout the treatment period of 42 days, daily IV administration of rozanolixizumab (initial 30 mg/kg loading dose; 5 mg/kg daily thereafter) consistently reduced plasma IgG concentrations in all cynomolgus monkeys, maintaining low concentrations[1].

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0069 mL	0.0344 mL	0.0689 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

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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.

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