

## Trevogrumab

## Chemical Properties

CAS No. : 1429201-24-0

Formula:

Molecular Weight: 144.02 kDa

Store at low temperature

Storage: -20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Trevogrumab (REGN-1033) is a fully human monoclonal antibody specifically designed to target and inhibit the activity of growth differentiation factor 8 (GDF8), which is also known as myostatin and functions as a negative regulator of muscle growth; Trevogrumab is currently under extensive research of sarcopenia, a complex condition characterized by progressive and generalized loss of skeletal muscle mass and function often associated with aging, wasting atrophy, various chronic diseases, and significant alterations in dietary and nutritional intake.
Targets(IC50)	TGF-beta/Smad
In vitro	Human skeletal myoblasts were treated with Trevogrumab (40 nM, 30 minutes), and the target protein levels were detected by Western Blot. <b>Results:</b> Trevogrumab effectively inhibited myostatin-induced Smad2/3 activation, showing high affinity and specificity. [1]
In vivo	Trevogrumab (0.1-30 mg/kg, subcutaneously, twice a week for 4 weeks) treated mice resulted in a significant increase in gastrocnemius (GA) and tibialis anterior (TA) muscle weight (~20%) and an increase in myofiber area (~15%).[1]

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0069 mL	0.0347 mL	0.0694 mL
5 mM	0.0014 mL	0.0069 mL	0.0139 mL
10 mM	0.0007 mL	0.0035 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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