

## Canakinumab

## Chemical Properties

CAS No. :	914613-48-2
Formula:	
Molecular Weight:	145.18 kDa
Storage:	Store at low temperature -20°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Canakinumab

## Biological Description

Description	Canakinumab (ACZ885) is a recombinant human IL-1 $\beta$ -targeting monoclonal antibody that inhibits human and chorioallantoic monkey IL-1 $\beta$ with IC50 values of 43.6 and 40.8 $\mu$ M, respectively. It exhibits anti-inflammatory activity by neutralizing IL-1 $\beta$ signaling, and it has been used for the treatment of gout and coronary artery disease.
Targets(IC50)	IL Receptor, Interleukin
In vitro	Dose-dependently, Canakinumab (0-7 nM) represses IL-6 production in marmoset peripheral blood mononuclear cells, demonstrating IC50s of 43.6 and 40.8 $\mu$ M for human and marmoset IL-1 $\beta$ , respectively[2]. Effectively, Canakinumab competes with IL-1RI and IL-1RII for binding to IL-1 $\beta$ [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
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

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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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481