

## Guselkumab

## Chemical Properties

CAS No. : 1350289-85-8

Formula:

Molecular Weight: 144.8 kDa

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

Actual storage temperature shall be subject to the COA.

## Guselkumab

## Biological Description

Description	Guselkumab (CNTO 1959) is a recombinant human IgG1 monoclonal antibody targeting the IL-23p19 subunit. Guselkumab binds to human cynomolgus monkey IL-23 with Kd values of 3.3 and 1.9 pmol/L, respectively. Guselkumab can inhibit the production of cytokines downstream of IL-23 signaling pathway, and can be used in the study of psoriatic arthritis.
Targets(IC50)	IL Receptor, Interleukin
In vitro	Guselkumab effectively suppresses the production of Th17 cytokines, including IL17A, IL-17F, and IL-22, in mouse splenocytes stimulated with IL-23 concentrations of 0.5 or 1 ng/mL, demonstrating IC50 values between 0.016-0.080 nM. It also inhibits the IL-23 (10 or 100 ng/mL) driven production of IL-10 in human NKL cells. However, guselkumab does not impact the IL-12 (0.1 ng/mL) mediated production of interferon $\gamma$ (IFN $\gamma$ ) in NK92MI cells. In combination with IBI112, guselkumab can prevent IL-23-induced STAT3 phosphorylation, showing an IC50 of 102.1100 $\pm$ 2.0053 nM. Additionally, guselkumab blocks the induction of mIL-17 production by hIL-23 in a dose-dependent manner with an IC50 of 4.9743 $\pm$ 1.2847 nM and inhibits IL-17F production in cynomolgus monkeys with an IC50 of 16.7950 nM.

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0069 mL	0.0345 mL	0.0691 mL
5 mM	0.0014 mL	0.0069 mL	0.0138 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.

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