
Product Data Sheet

Product Name: Guselkumab

Cat. No.: GC62685

Chemical Properties

Cas. No. 1350289-85-8

Formula M.Wt

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Guselkumab is a recombinant human IgG1 monoclonal antibody against the IL-23p19 subunit. Guselkumab binds to human and cynomolgus monkey IL-23 with Kd values of 3.3 and 1.9 pmol/L, respectively. Guselkumab inhibits production of cytokines lying downstream of the IL-23 signaling pathway and can be used for psoriatic arthritis research[1].

Guselkumab inhibits IL-23 (0.5 or 1 ng/mL)-mediated production of Th17 cytokines IL17A, IL-17F, and IL-22 in mouse splenocytes with IC50 ranging 0.016-0.080 nM. And, it inhibits IL-23 (10 or 100 ng/mL)-mediated production of IL-10 in human NKL cells. Guselkumab has no effect on IL-12 (0.1 ng/mL)-mediated production of interferon γ (IFN γ) in NK92MI cells. [1]. Guselkumab combines with IBI112 blocks IL-23-induced STAT3 phosphorylation, and Guselkumab blocks IL-23-induced STAT3 phosphorylation with an IC50 value of 102.1100 ± 2.0053 nM[2]. Guselkumab blocks hIL-23-induced mL-17 production in a dose-dependent manner, exhibiting an IC50 of 4.9743 ± 1.2847 nM. In another experiment, Guselkumab also blocks IL-17F production in cynomolgus monkeys with an IC50 of 16.7950 nM[2].

[1]. International non-proprietary name: guselkumab Procedure No.

Caution: Product has not been fully validated for medical applications. For research use only.

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EMA/H/C/004271/0000par-public-assessment-report_en.pdf

[2]. Li Li, et al. IBI112, a selective anti-IL23p19 monoclonal antibody, displays high efficacy in IL-23-induced psoriasiform dermatitis. Int Immunopharmacol

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