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## Product Data Sheet

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Product Name: Ixekizumab

Cat. No.: GC62224

### Chemical Properties

Cas. No. 1143503-69-8

Formula M.Wt

Solubility Storage Store at 4°C, do not freeze

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

Ixekizumab (LY2439821) is a humanized IgG4 monoclonal antibody that selectively binds and neutralizes interleukin IL-17A (KD<3 pM). Ixekizumab directly blocks IL-17A binding to IL-17RA (IL-17A receptor) but does not bind to other IL-17 family members.

Ixekizumab is used for the research of moderate-to-severe plaque psoriasis[1][2].

The equilibrium KD of Ixekizumab for human and cynomolgus monkey IL-17A were 1.8 pM and 0.8 pM, respectively. Ixekizumab also bound to rabbit IL-17A, but the affinity was lower, and the binding was heterogeneous (KD of 1.3 nM and 14 nM). Ixekizumab shows no binding to either mouse or rat IL-17A[1]. Ixekizumab (0.1-10000 pM) inhibits human IL-17A- or human IL-17A/F heterodimer-induced growth-regulated oncogene (GRO) $\alpha$  secretion from HT-29 cells in a dose-dependent fashion. Ixekizumab inhibits cynomolgus monkey IL-17A-induced GRO $\alpha$  secretion from HT-29 cells in a dose-dependent fashion[1].

Ixekizumab (0.001-1 mg/kg; i.v.) is able to decrease human IL-17A-induced keratinocyte chemoattractant (KC) secretion in the plasma of the C57BL/6 mice in a dose-dependent manner[1]. In male cynomolgus monkeys, following IV administration of 1 mg/kg, Ixekizumab is eliminated with a mean half-life of 6.5 days. After SC administration of 1

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

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mg/kg, Ixekizumab reaches an average maximal plasma concentration of 11.1 µg/mL ~72 hours postdose. The mean elimination half-life following the SC injection was 10.3 days[1].

[1]. Liu L, et al. Generation and characterization of ixekizumab, a humanized monoclonal antibody that neutralizes interleukin-17A. *J Inflamm Res.* 2016;9:39-50. Published 2016 Apr 19.

[2]. Griffiths CE, et al. Comparison of ixekizumab with etanercept or placebo in moderate-to-severe psoriasis (UNCOVER-2 and UNCOVER-3): results from two phase 3 randomised trials. *Lancet.* 2015;386(9993):541-551.

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