

Product Data Sheet

Product Name: Obexelimab

Cat. No.: GC74585

Chemical Properties

Cas. No. 1690307-05-1

Formula M.Wt

Solubility Storage

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

Obexelimab

Background

Obexelimab (XmAb5871) is a humanized anti-CD19 antibody. Obexelimab works by inhibiting B cell receptor (BCR) mediated calcium influx and promoting the phosphorylation of Fc γ receptor IIb (Fc γ RIIb), which reduces B cell activation and function, leading to B cell apoptosis. Obexelimab can be used in research for rheumatoid arthritis and systemic lupus erythematosus.

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

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Obexelimab can induce the expression levels of apoptosis pathway related genes and promote B cell apoptosis[1]. Obexelimab (10 µg/mL, 3 min) inhibits B cell activation and function by suppressing BCR mediated calcium flux and promoting Fc γ RIIB phosphorylation[2].

Obexelimab (10 mg/kg; twice a week; i.p.) can inhibit the autoimmune response of immune deficient mice implanted with peripheral blood mononuclear cells (PBMCs) from rheumatoid arthritis (RA) patients[2].

References:

- [1]. Boyles JS, et al. A nondepleting anti-CD19 antibody impairs B cell function and inhibits autoimmune diseases. JCI Insight. 2023 Jul 10;8(13):e166137.
- [2]. Chu SY, et al. Suppression of rheumatoid arthritis B cells by XmAb5871, an anti-CD19 antibody that coengages B cell antigen receptor complex and Fcγ receptor IIb inhibitory receptor. Arthritis Rheumatol. 2014 May;66(5):1153-64.
- [3]. Horton HM, et al. Antibody-mediated coengagement of FcγRIIb and B cell receptor complex suppresses humoral immunity in systemic lupus erythematosus. J Immunol. 2011 Apr 1;186(7):4223-33.

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