

Product Data Sheet

Product Name: LY3541860

Cat. No.: GC79343

Chemical Properties

Cas. No.

Formula

M.Wt 144.7

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

LY3541860 is a selective anti- CD19 antibody that both binds human CD19 with high affinity and selectively binds human B cells (K d values: 76.8 pM and 94.5 nM for humans and cynomolgus

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

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monkeys, respectively). LY3541860 inhibits CpG-induced CD69 expression ($IC_{50} = 0.006$ nM). LY3541860 exhibits potent B cell inhibitory activities. LY3541860 can inhibit both BCR- and TLR-induced human B cell activation. LY3541860 can be used for the research of autoimmune diseases [1].

In Vivo, LY3541860 (0.01-1.0 mg/kg; s.c.; weekly) inhibits B cell activation and immunoglobulin secretion in female humanized NSG mice (with a human IgM secretion attenuation of 57-78%)^[1].

In Vitro, LY3541860 (1.6-1000 nM) binds human and cynomolgus CD19 with high affinity (K_d values: 76.8 pM, 94.5 nM, respectively^[1]). LY3541860 (30 minutes) selectively binds human B cells in whole blood ($EC_{50} = 0.184 \pm 0.008$ nM)^[1]. LY3541860 (0.001 nM-10 nM; 30 min) inhibits B cell proliferation ($IC_{50} = 0.008$ nM)^[1]. LY3541860 (0.1 pM-10 nM) can inhibit CpG-induced CD69 expression ($IC_{50} = 0.006$ nM)^[1].

References:

[1]. Boyles JS, et al. A nondepleting anti-CD19 antibody impairs B cell function and inhibits autoimmune diseases. JCI Insight. 2023;8(13):e166137. Published 2023 Jul 10.

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