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

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 (Kd values: 76.8 pM, 94.5 nM, respectively[1]. LY3541860 (30 minutes) selectively binds human B cells in whole blood (EC50 = 0.184 ± 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.