

Product Data Sheet

Product Name: Lanerkitug

Cat. No.: GC79219

Chemical Properties

Cas. No.

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

Lanerkitug (BAY3375968) is a fully human monoclonal IgG1 anti-human CCR8 antibody. Lanerkitug selectively depletes human CCR8 + Tregs via antibody dependent cellular cytotoxicity (ADCC) and

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antibody dependent cellular phagocytosis (ADCP). Lanerkitug can be used in the research of solid tumors [1] [2].

In Vivo, Lanerkitug shows a good safety profile in cynomolgus monkeys [2].

In Vitro, Lanerkitug (0.001 pM-10000 pM; 2-4 h) mediates potent Fc-dependent ADCC of human CCR8-expressing HEK293 cells and primary human activated Tregs ($EC_{50} = 0.35-0.48$ pM)[1]. Lanerkitug selectively depletes human CCR8+ Tregs via antibody dependent cellular cytotoxicity (ADCC) and antibody dependent cellular phagocytosis (ADCP)[2].

References:

[1]. Roider H, et al. BAY 3375968: An afucosylated anti-CCR8 antibody depleting activated intratumoral regulatory T cells as a cancer immunotherapy[J]. Cancer Research, 2022, 82(12_Supplement): 2866-2866.

[2]. Roider HG, et al. Selective depletion of tumor-infiltrating regulatory T cells with BAY 3375968, a novel Fc-optimized anti-CCR8 antibody. Clin Exp Med. 2024;24(1):122. Published 2024 Jun 10.

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