
Product Data Sheet

Product Name: Sugemalimab

Cat. No.: GC65580

Chemical Properties

Cas. No. 2256084-03-2

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

Sugemalimab is a fully human, full length, anti-programmed death ligand 1 (PD-L1) immunoglobulin G4 (IgG4) monoclonal antibody (mAb). Sugemalimab shows anticancer activities and can be used for non-small cell lung cancer research[1].

Sugemalimab (CS1001) specifically binds to PD-L1, competitively blocks the binding of human PD-L1 with PD-1 and CD80, and effectively induces CD4+ T lymphocyte proliferation and enhances the production of interferon- γ and interleukin-2[2]. Sugemalimab employs IgG4 isotype and lacks antibody-dependent cellular mediated cytotoxicity (ADCC) or complement-dependent cytotoxicity (CDC)[2].

Sugemalimab (CS1001) significantly inhibits tumor growth in the subcutaneous MC38-hPD-L1 murine colon carcinoma (murine MC38 cells expressing human PD-L1) in human PD-1 knock-in mouse model[2]. Sugemalimab not only enhances the cytotoxic T cell/regulatory T cell ratio, but also significantly upregulates M1 macrophage and down-regulated MDSC (myeloid-derived suppressor cells) population in D-1/PD-L1 dual knock-in mice implanted with MC38-hPD-L1 tumor[2].

[1]. Dhillon S, et al. Sugemalimab: First Approval. *Drugs*. 2022 Apr;82(5):593-599.

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

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[2]. Zhang J, et al. The preclinical characterization of CS1001, an anti-PD-L1 IgG4 monoclonal antibody and its activity beyond T cell regulation. Cancer Research, 2020, 80(16_Supplement): 3260-3260.

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