

## Product Data Sheet

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Product Name: Solaprubart

Cat. No.: GC79277

### Chemical Properties

Cas. No. 3057433-10-7

Formula M.Wt 145.35

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

# Solaprubart

### Background

Solaprubart (STAR-0310) is a fully human IgG1 subtype monoclonal antibody targeting OX40 (CD134/TNFRSF4), with a K<sub>d</sub> of 7.2 nM. By blocking the OX40/OX40L co-stimulatory signal, Solaprubart effectively inhibits cytokine release ( IFN- $\gamma$ , TNF- $\alpha$ , IL-5, IL-13 ) from activated effector T cells (Th1/Th2/Th17-associated). Solaprubart can be used in research related to moderate-to-severe atopic dermatitis [1] [2].

In Vitro, Solaprubart (0.1-1000 nM) potently inhibits the release of IFN $\gamma$ , TNF- $\alpha$ , IL-5 and IL-13 from

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

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pre-activated human T cells, with EC50 values of 11.8, 4.2, 16.4 and 5.3 nM, respectively<sup>[1]</sup>. Solaprubart (0-100 nM) significantly reduces ADCC activity against activated human T cells and regulatory human T cells, with EC50 values of 0.1 nM and 2.31 nM, respectively<sup>[1]</sup>.

### References:

- [1]. Biris N, et al. Development and characterization of STAR-0310: a novel OX40 antagonistic monoclonal antibody. *Cells*. 2024;13(7).
- [2]. Biris N, et al. A Dual-Action Mechanism to Prevent OX40 Signaling: The Structural Basis for the Differentiated Antagonist STAR-0310. *bioRxiv*. 2025 Sep 19:2025-09.

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