Product Data Sheet

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 d of 7.2 nM. By blocking the OX40/OX40L co-stimulatory signal, Solaprubart effectively inhibits cytokine release (IFN-γ, TNF-α, 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 IFNγ, TNF-α, IL-5 and IL-13 from

pre-activated human T cells, with EC50 values of 11.8, 4.2, 16.4 and 5.3 nM, respectively[1]. 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[1].

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.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA