

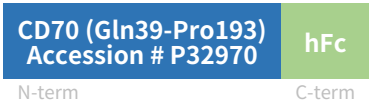
Rev04
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DATASHEET

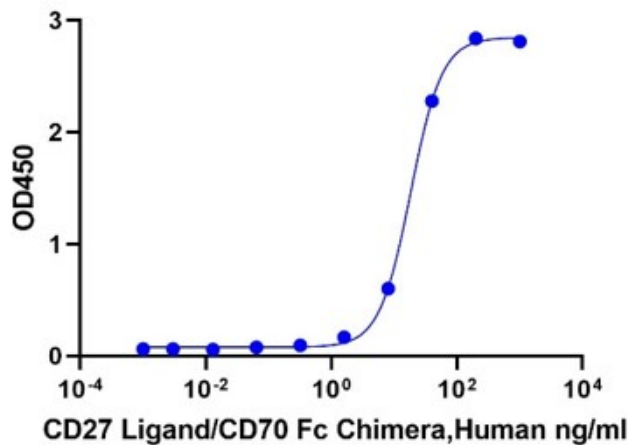
CD27 Ligand/CD70 Fc Chimera, Human

Cat. No.: Z03450

Product Introduction

Species	Human
Protein Construction	
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 1 EU/μg of protein by gel clotting method
Biological Activity	Immobilized CD27 (Mammalian, C-Fc-6His) at 1.0 μg/ml (100 μl/well) can bind CD27 Ligand/CD70, hFc, Human with EC ₅₀ =18.33 ng/ml when detected by SA-HRP.
Expression System	HEK 293
Apparent Molecular Weight	~53.6 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples



Immobilized CD27 (Mammalian,C-Fc-6His) at 1 µg/ml (100 µl/well) can bind CD27 Ligand/CD70 Chimera, Human with EC50=18.33 ng/ml when detected by SA-HRP. Background was subtracted from data points before curve fitting.

Background

Target Background : CD70 (Cluster of Differentiation 70) is a protein that in humans is encoded by CD70 gene. CD70 is a ligand for CD27. The CD70-CD27 pathway plays an important role in the generation and maintenance of T cell immunity, in particular during antiviral responses. Upon CD27 binding, induces the proliferation of costimulated T-cells and enhances the generation of cytolytic T-cells. The CD70 protein is expressed on highly activated lymphocytes (like in T- and B-cell lymphomas). It is therefore suggested that anti-CD70 antibodies might be a possible treatment for CD70 positive lymphomas as normal lymphocytes have low CD70 expression.

Synonyms : CD27-L; CD_antigen: CD70; CD27L; CD27LG; TNFSF7

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.