Data Sheet (Cat.No.TMPY-03956)

TargetMol

Fas Ligand Protein, Human, Recombinant (His)

General Information

Synonyms:	TNLG1A;FASL;FASLG;CD178;CD95-L;APT1LG1;APTL;CD95L;Fas ligand;ALPS1B;TNFSF6
Protein Construction:	A DNA sequence encoding human FASLG (NP_000630.1) (Pro134-Leu281) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	P48023-1
Molecular Weight:	19.3 kDa (predicted); 26 kDa (reducing conditions)

QC Testing

Biological Activity:	Immobilized Human Fas/CD95 hFc at 2 μg/mL (100 μL/well) can bind Human Fas Ligand His , the EC50 of Human Fas Ligand His is 40-200 ng/mL.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Fas Ligand, also known as FASLG and CD95L, is the ligand for FAS. It is a transmembrane protein which binds to TNFRSF6/FAS. Interaction of FAS with fas Ligand is critical in triggering apoptosis of some types of cells such as lymphocytes. Fas Ligand may be involved in cytotoxic T-cell mediated apoptosis and in T-cell development. TNFRSF6/FAS-mediated apoptosis may have a role in the induction of peripheral tolerance, in the antigen-stimulated suicide of mature T-cells, or both.

Reference

Pitti R M. et al., 1998, Nature. 396 (6712): 699-703.
HAne M. et al., 1995, FEBS Lett. 373 (3): 265-8.
Schneider P. et al., 1997, J Biol Chem. 272 (30): 18827-33.

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