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FASLG
Recombinant Human Fas Ligand, soluble, His-tag

Catalog No.	CRF156B	**Quantity:**	10 µg

Alternate Names: Tumor necrosis factor ligand superfamily member 6, TNFSF6, FASL, FASLG, CD178, CD95 ligand, CD95L

Description: Fas Ligand is a member of the TNF superfamily that is expressed on the cell surface of activated T cells. Binding of FasL to Fas Receptor triggers apoptosis in Fas-bearing cells. FasL has the ability to kill T cells and activated B cells which leads to down-regulation of the immune response. The mechanism of Fas induced apoptosis involves recruitment of pro-caspase 8 through an adaptor molecule called FADD followed by processing of the pro-enzyme to active forms. These active caspases then cleave various cellular substrates leading to the eventual cell death. **Both human and murine sFasL are fully active on human and murine cells.** Recombinant human soluble Fas Ligand comprises the TNF homologous region of FasL plus an eight His-Tag.

UniProt ID: P48023

Gene ID: 356

Source: CHO cells

Molecular Weight: 17.9 kDa (156 aa)

Formulation: Lyophilized from sterile-filtered PBS

Purity: ≥ 95% by RP-HPLC and SDS-PAGE

Endotoxin Level: < 1 EU/µg

Biological Activity: ED_{50} ≤ 10.0 ng/ml, determined by its ability to induce cytotoxicity in Jurkat cells in the absence of any cross-linking.

Specific Activity: ≥ 1 x 10^5 units/mg

Amino Acid Sequence: HHHHHHHHPS PPPEKKELRK VAHLTGKSNS RSMPLEWEDT YGIVLLSGVK YKKGGLVINE TGLYFVYSKV YFRGQSCNNL PLSHKVYMRN SKYPQDLVMM EGKMMSYCTT GQMWARSSYL GAVFNLTSAD HLYVNVSELS LVNFEESQTF FGLYKL

Reconstitution: **Centrifuge vial prior to opening**. Add PBS or medium to the vial to fully solubilize the protein to a concentration ≥ 100 µg/ml. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein such as 0.1% BSA and store in working aliquots at -20°C to -80°C.

Storage & Stability: Lyophilized protein is stable for 1 year at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles**.

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