

# sFas Ligand, Human Recombinant

<b>CATALOG #:</b>	7140-10	10 µg
	7140-50	50 µg
<b>ALTERNATE NAMES:</b>	soluble Fas Ligand (sFasL), TNFSF6, CD95L, Apo I Ligand, APTL	
<b>SOURCE:</b>	CHO cells	
<b>PURITY:</b>	≥ 95% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	17.9 kDa	
<b>ENDOTOXIN LEVEL:</b>	< 0.1 ng/µg of protein (<1EU/µg).	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 0.5x PBS, pH 7.5.	
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

**RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

**DESCRIPTION:**

Fas Ligand (FasL) 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 procaspase 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 is a 17.9 kDa protein comprising the TNF homologous region of FasL and contains an 8 residue N-terminal His-Tag.

**BIOLOGICAL ACTIVITY:** Determined by its ability to induce cytotoxicity in Jurkat cells in the absence of any cross-linking. The ED<sub>50</sub> for this effect is ≤10.0 ng/ml, corresponding to a specific activity of ≥ 1 x 10<sup>5</sup> units/mg.

**AMINO ACID SEQUENCE:**

HHHHHHHHPS PPPEKKELRK VAHLTGKSNS RSMPLWEDT YGIVLLSGVK  
YKKGGLVINE TGLYFVYSKV YFRGQSCNNL PLSHKVYMRN SKYPQDLVMM  
EGKMMSYCTT QQMWARSSYL GAVFNLTSD HLYVNVSELS LVNFEEQSQT FGLYKL

**RELATED PRODUCTS:**

- sFas Receptor, human recombinant (**Cat. No. 7141-10, -50**)
- FAS Inhibitor, C75 (**Cat. No. 1547-1**)
- Fas Ligand Antibody (Clone I-6060) (**Cat. No. 3330-100**)
- Fas/Apo1 Antibody (**Cat. No. 3070R-100**)
- Fas/Apo1 Blocking Peptide (**Cat. No. 3070RBP-50**)
- FasL Antibody (**Cat. No. 3345R-100**)
- FasL Blocking Peptide (**Cat. No. 3345RBP-50**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**