

# sFas Receptor, Human Recombinant

<b>CATALOG #:</b>	7141-10	10 µg
	7141-50	50 µg
<b>ALTERNATE NAMES:</b>	soluble Fas receptor (sFasR), TNFRSF6, CD95, Apo I, Fas Antigen	
<b>SOURCE:</b>	E Coli	
<b>PURITY:</b>	≥ 98% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	17.6 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 with no additives.	
<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 and Fas Ligand (FasL) belong to the TNF superfamily and are type I and type II transmembrane proteins, respectively. Binding of FasL to Fas triggers apoptosis in Fas-bearing cells. The mechanism of 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. sFasR is capable of inhibiting FasL induced apoptosis by acting as a

decoy receptor that serves as a sink for FasL. The full length Fas (receptor) is a 319 amino acid type I transmembrane protein, which contains a 157 amino acid extracellular domain, a 17 amino acid transmembrane domain, and 145 amino acid cytoplasmic domain. Recombinant human soluble Fas (sFas Receptor) is a 157 amino acid polypeptide (17.6 kDa) corresponding to the TNFR homologous cysteine rich extracellular domain Fas.

**BIOLOGICAL ACTIVITY:** ED<sub>50</sub> was determined by its ability to inhibit the cytotoxicity of Jurkat cells using a concentration range of 10-15 µg/ml in the presence of 2ng/ml of hFasL.

**AMINO ACID SEQUENCE:**

MRLSSKSVNA QVTDINSKGL ELRKTVTVE TQNLEGLHHD GQFCHKPCPP  
GERKARDCTV NGDEPDCVPC QEGKEYTDKA HFSSKCRRCR LCDEGHGLEV  
EINCTRTQNT KCRCKPNFFC NSTVCEHCDP CTKEHGIIK ECTLTSNTKC KEEGSR

**RELATED PRODUCTS:**

- sFas Ligand, human recombinant (Cat. No. 7140-10, -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.**