Recombinant Human FASLG, FLAG-tagged

Cat. No. FASLG-2424H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant extracellular domain of human FasL (aa 103-281) produced in*HEK 293 cells*is fused at the N-terminus to a linker peptide (26 aa) and a FLAG-tag. Glycosylation of rhsSuperFasLigandTM is similar to natural human FasL. 32kDa (nonglycosylated), 35kDa (glycosylated).
Species	Human
Source	Human Cells
ProteinLength	103-281 a.a.
Description	Fas and Fas Ligand (FasL) belong to the TNF superfamily and are type I and type II transmembrane proteins, respectively. The Fas molecule is comprised of 319 amino acids of which 145 amino acids constitute the cytoplasmic region, 17 amino acids the transmembrane domain and 157 amino acids the extracellular region. The extracellular portion of Fas is called sFasR. 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 and 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.
Source/Host	HEK 293 cells.
Concentration	0.1mg/ml after reconstitution.

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Purity	≥95% (SDS-PAGE).
Endotoxin Content	<0.1EU/μg purified protein (LAL test; Bio Whittaker).
Reconstitution	Reconstitute with 50μsterile water. Further dilutions should be made with cell culture medium containing 5% fetal calf serum.
Specificity	Binds to human, mouse and rat Fas (CD95; APO-1).
Formulation	Lyophilized. Contains PBS.
Biological Activity	Kills Fas-sensitive cells at concentrations of >1ng/ml. Note: Does not require enhancer.
Specific Activity	ED50: 1ng/ml (A20 cells).
Long Term Storage	-20°C.
Use/Stability	Stable for at least 6 months after receipt when stored at -20°C.
Handling	Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -20°C.

GENE INFORMATION

Gene Name	FASLG Fas ligand (TNF superfamily, member 6) [Homo sapiens]
Synonyms	FASLG; Fas ligand (TNF superfamily, member 6); FASL; CD178; CD95L; TNFSF6; APT1LG1; fas ligand; CD95 ligand; apoptosis (APO-1) antigen ligand 1; tumor necrosis factor (ligand) superfamily, member 6; CD95L protein; APTL;CD_antigen; Tumor necrosis factor ligand superfamily member 6, membrane form; Tumor necrosis factor ligand superfamily member 6, soluble form

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Gene ID	356
mRNA Refseq	NM_000639
Protein Refseq	NP_000630
MIM	134638
UniProt ID	P48023
Chromosome Location	1q23
Pathway	Allograft rejection; Apoptosis; Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; MAPK signaling pathway; Natural killer cell mediated cytotoxicity; Neurotrophin signaling pathway; Pathways in cancer; Type I diabetes mellitus
Function	cytokine activity; tumor necrosis factor receptor binding

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