

Recombinant Human Fas ligand (TNF superfamily, member 6)

Cat. No. FASLG-1616H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	CHO
Description	Fas ligand (FasL) is a type II transmembrane protein that belongs to the tumor necrosis factor (TNF) family. Fas ligand is a homotrimeric protein and signals through trimerization of FasR, which spans the membrane of the "target" cell. This trimerization usually leads to apoptosis, or cell death. Soluble Fas ligand is generated by cleaving membrane-bound FasL at a conserved cleavage site by the external serine matrix metalloproteinase MMP-7. Soluble FasL is less active than their membrane-bound counterparts and do not induce receptor trimerization and DISC formation. FasL is regarded as a potential target for immunotherapy.
Sequence	CD33 Signal Peptide+hhhhhhpspp pekkelrkva hltgksnsrs mplewedtyg ivllsgvkyk kggvlnetg lyfvyskvyf rgqscnnlpl shkvymrnsk ypqdlvmmeq kmmsycttgq mwarssylga vfnltsadhlyvynvselslv nfeesqtffg lykl.
Molecular Weight	The predicted molecular weight of Recombinant Human FasL is 18 kDa. However, the actual molecular weight as observed on polyacrylimide gels is 26 - 28 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page.
Endotoxin	<1.0 EU/g.

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Biological Activity

The biological activity of Human Soluble Fas Ligand is determined by its ability to induce cytotoxicity in Jurkat cells. The expected ED50 for this effect is <1.0 - 3.0 ng/ml, in the presence of 10 µg/ml of a cross-linking antibody.

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

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

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Function

cytokine activity; tumor necrosis factor receptor binding

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