

Recombinant Human FASLG, His-tagged

Cat. No. FASLG-2703H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human soluble Fas Ligand is a protein (156 amino acid residues) with a N-terminal His-Tag. It is expressed in <i>CHO cells</i> .
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.
Purity	Greater than 95% (determined by SDS-PAGE and HPLC analysis).
MW	19.9 kDa.
Endotoxin Level	< 0.1 ng per µg (1EU/µg) of rHu sFasL.
Biological Activity	Determined by it's ability to induce cytotoxicity in Jurkat cells in the absence of any cross-linking. The ED ₅₀ for this effect is < 10.0 ng/ml, corresponding to a specific activity of > 1 x 10 ⁵ units/mg.

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Formulation	Lyophilized from a sterile-filtered solution with no additives.
Reconstitution	Please Note: Always centrifuge product briefly before opening the vial. Reconstitute in sterile, ultra-pure water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted into other aqueous buffers and stored at -20°C for future use.
Storage	The lyophilized powder, though stable at room temperature for up to 3 weeks, is best stored desiccated at -20°C. Reconstituted sFasL should be used immediately or stored in undiluted working aliquots at -20°C. Avoid repeated freeze / thaw cycles.

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	1q23

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Location

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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