

Recombinant Human FASLG, C13&N15-labeled

Cat. No. FASLG-234H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human Fas Ligand MS Standard Protein, C13 and N15-labeled (Fas Ligand, Heavy Labeled) Pro 134 - Leu 281 (Accession # AAH17502.1) was produced in human 293 cells (HEK293).

Species Human

Source HEK293

ProteinLength 134-281 a.a.

Description Fas ligand also known as FasL, CD178, CD95L, or TNFSF6, is a homotrimeric type-II transmembrane protein that belongs to the tumor necrosis factor (TNF) family. Its binding with its receptor induces apoptosis. Fas ligand/receptor interactions play an important role in the regulation of the immune system and the progression of cancer. Mature human Fas Ligand consists of a 179 amino acid (aa) extracellular domain (ECD), a 22 aa transmembrane segment, and a 80 aa cytoplasmic domain. Within the ECD, human Fas Ligand shares 81% and 78% aa sequence identity with mouse and rat Fas Ligand, respectively. Apoptosis triggered by Fas-Fas ligand binding plays a fundamental role in the regulation of the immune system. Its functions include: T-cell homeostasis, cytotoxic T-cell activity, immune privilege, maternal tolerance, tumor counterattack. Defective Fas-mediated apoptosis may lead to oncogenesis as well as drug resistance in existing tumors. Germline mutation of Fas is associated with autoimmune lymphoproliferative syndrome (ALPS), a childhood disorder of apoptosis.[1-3]

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Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Molecular Mass	Fas Ligand, Heavy Labeled, fused with 6xHis tag at the N-terminus, has a calculated MW of 17.7 kDa. The predicted N-terminus is Pro 134 . DTT-reduced Protein migrates as 25-32 kDa due to glycosylation.
Endotoxin	Less than 1.0 EU per µg of the Fas Ligand, Heavy Labeled by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC-8oC); After reconstitution under sterile conditions for 1 month (4oC-8oC) or 3 months (-20oC to -70oC).

GENE INFORMATION

Gene Name	FASLG Fas ligand (TNF superfamily, member 6) [Homo sapiens]
Official Symbol	FASLG
Synonyms	FASLG; Fas ligand (TNF superfamily, member 6); APT1LG1, TNFSF6, tumor necrosis factor (ligand) superfamily, member 6; tumor necrosis factor ligand superfamily member 6; CD178; FasL; APTL; CD95 ligand; fas antigen ligand; apoptosis antigen ligand; apoptosis (APO-1) antigen ligand 1; tumor necrosis factor (ligand) superfamily, member 6; FASL; CD95L; CD95-L; TNFSF6; APT1LG1;
Gene ID	356
mRNA Refseq	NM_000639

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Protein Refseq	NP_000630
MIM	134638
UniProt ID	P48023
Chromosome Location	1q23
Pathway	Activation of Pro-Caspase 8, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem;
Function	cytokine activity; protein binding; receptor binding; tumor necrosis factor receptor binding;

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