Active Recombinant Monkey FASLG Protein, His-tagged

Cat. No. FASLG-11086M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus/Rhesus macaque Fas Ligand Protein, His Tag, premium grade is expressed from human 293 cells (HEK293). It contains AA Pro 133 - Leu 280 (Accession # P63308-1). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: His
Species	Monkey
Source	HEK293
ProteinLength	133-280 aa
Description	Fas ligand is 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

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	disorder of apoptosis.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.
Specificity	Sterility: Negative Mycoplasma: Negative
Bio-activity	Immobilized Human Fas Protein, Fc Tag at 5 μg/mL (100 μL/well) can bind Cynomolgus/Rhesus macaque Fas Ligand Protein, His Tag, premium grade with a linear range of 1-31 ng/mL.
Molecular Mass	The protein has a calculated MW of 18.8 kDa. The protein migrates as 27-33 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	FASLG Fas ligand [Macaca fascicularis (crab-eating macaque)]
Official Symbol	FASLG

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Synonyms	FASLG; Fas ligand; FASL; CD95L; CD95-L; TNFSF6; Cm-FasL; tumor necrosis factor ligand superfamily member 6; CD95 ligand; Fas antigen ligand; Fas ligand (TNF superfamily, member 6); Tumor necrosis factor ligand superfamily member 6
Gene ID	102139406
mRNA Refseq	XM_045392855
Protein Refseq	XP_045248790
UniProt ID	P63308

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