PRODUCT INFORMATION

Soluble Fas Ligand/CD95 Ligand Extracellular Domain (human, recombinant)

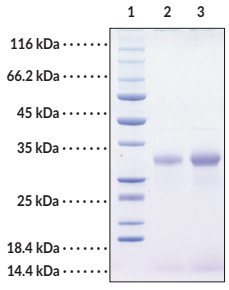
Item No. 44449

Overview and Properties

Synonyms:	Apoptosis Antigen Ligand, APTL, CD178, CD95L, CD95 Ligand, Fas Antigen Ligand, FasL, FASLG, TNFL6, TNFSF6, Tumor Necrosis Factor Ligand 6, TNF Ligand Superfamily Member 6, Tumor Necrosis Factor Ligand Superfamily Member 6
Source:	Functionally validated recombinant human N-terminal DYKDDDDK-tagged soluble FasL extracellular domain expressed in mammalian cells
Amino Acids:	103-281
Uniprot No.:	P48023
Molecular Weight:	23.96 kDa
Storage:	-80°C (as supplied)
Stability:	≥1 year
Purity:	≥85% estimated by SDS-PAGE
Supplied in:	1X PBS, pH 7.4
Protein Concentration:	***batch specific*** mg/ml
Activity:	See figures for details

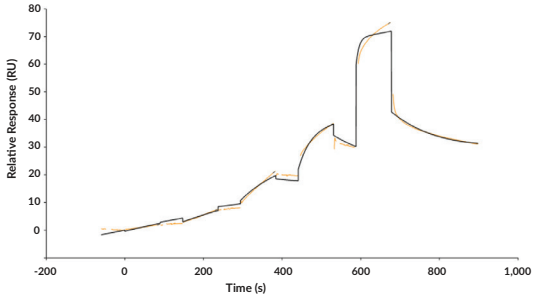
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Images



Lane 1: MW Markers
Lane 2: Human souble Fas Ligand Extracellular Domain (2 µg)
Lane 3: Human souble Fas Ligand Extracellular Domain (4 µg)

SDS-PAGE Analysis of Soluble Fas Ligand/CD95 Ligand Extracellular Domain. This protein has a calculated molecular weight of 23.96 kDa. It has an apparent molecular mass of approximately 30 kDa, by SDS-PAGE, due to post translational modifications such as glycosylation.



Fas Receptor Binds Soluble Fas Ligand/CD95 Ligand Extracellular Domain (human, recombinant) (Item No. 44449). The Fas receptor binds human FasL with nanomolar affinity. Soluble Fas Ligand/CD95 Ligand Extracellular Domain (human, recombinant) (DYKDDDDK-tagged) was immobilized on a Series S Sensor Chip CM5 *via* an anti-DYKDDDDK antibody. SPR analysis was used to determine Fas ligand binding kinetics on a Biacore™ 8K using single-cycle kinetics with 2.4-1,500 nM Fas receptor.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM

PRODUCT INFORMATION

Description

Fas ligand (FasL), also known as CD95L, is a type II transmembrane protein and member of the TNF superfamily.[1] It is composed of a cytoplasmic domain, transmembrane domain, stalk region, TNF homology domain (THD), which is involved in homotrimerization, and a Fas-binding domain. FasL is expressed in activated T cells, as well as the placenta, testis, lung, prostate, esophagus, uterus, and spleen.[2] Binding of FasL to its receptor Fas leads to formation of a death-inducing signaling complex (DISC) composed of CD95 oligomers, the Fas-associated death domain protein (FADD), procaspase-8, procaspase-10, and cellular FLICE-like inhibitory protein (c-FLIP), which induces apoptosis.[3] Soluble FasL (sFasL) is produced by proteolytic cleavage of FasL by various matrix metalloproteinases (MMPs) and either inhibits FasL-induced apoptosis or induces apoptosis in a context-dependent manner.[1,4] sFasL induces migration of isolated human neutrophils and apoptosis in primary human distal lung epithelial cells.[5,6] It decreases ankylosis in a rat model of collagen-induced arthritis.[7] Serum levels of sFasL are increased in patients with insulin-dependent diabetes mellitus, systemic lupus erythematosus (SLE), rheumatoid arthritis, gastric cancer, or leukemia. Cayman's Soluble Fas Ligand/CD95 Ligand Extracellular Domain (human, recombinant) protein can be used for binding assay, ELISA, and Western blot (WB) applications.

References

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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM