

Product Specification Sheet

Recombinant Human Fas Ligand (FASL) Protein

Cat. # FASL15-R-2	Recombinant, purified, Human sFASL Protein,	SIZE: 2 ug
Cat. # FASL15-R-10	Recombinant, purified, Human sFASL Protein,	SIZE: 10 ug

FasL is a type II membrane protein belonging to the TNF family of cytokines. FasL induces apoptosis when it binds to cells expressing the Fas antigen. FasL was first discovered on the cell surface of T cells and NK cells. Expressed on the cell surface of activated T cells, FasL kills T cells and activated B cells leading to down-regulation of the immune response. The full length of FasL contains 281 amino acid residues, consisting of the transmembrane domain, extracellular domain and the cytoplasmic region. A metalloproteinase cleaves the membrane-bound FasL to produce soluble FasL (sFasL), which exists as a homotrimer. The sFasL shows lower cytotoxic activity than membrane bound FasL. ADI's recombinant Fas Ligand is a soluble 19.9 kDa protein containing 175 amino acid residues, comprising of only the extracellular domain of FasL.

Recombinant FASL sequence

LQKELAELE R STSQMHTASS LEKQIGHPS P PEKKELRKV
 AHLTGKSNR SMPLEWEDTY GIVLLSGVKY KGGGLVINET
 GLYFVYSKVY FRGQSCNNLP LSHKVYMRNS KYPQDLVMM
 GKMSYCTTG QMWARSSYL AVFNLTSA DH LYVNVSELSL
 VNFEESQTF F GLYKL

Source, Storage and Usage

Human FASL was expressed in CHO cells and purified to >98% purity by SDS-APGE. Purified FASL endotoxin level is less than 0.1 ng per µg (1EU/µg). It is supplied in sterile filtered solution was lyophilized from 1 x PBS, pH 7.2 in lyophilized form. The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20oC. Reconstituted sFasL should be stored in working aliquots at -20oC.

We recommend a quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other buffers and stored at 40C for 1 week or stored at -200C for future use.

Biological Activity :

Determined by it's ability to induce cytotoxicity in Jurkat cells in the absence of any cross-linking. The ED50 for this effect is < 10 ng/ml, corresponding to a specific activity of > 1 x 10⁵ units/mg.

General References: Mita E et al (1994) BBRC 204, 468-474; 2. Hakuno N et al (1996) Endocrinology 137, 1938-48; 3. Hahne M (1995) Intl. Immunol. 7, 1381-1386; 4. Suda T and Nagata S (1994) J Exp. Med. 179, 873-879; 5. Takahashi T et al (1994) Cell 76, 969-976

*This product is for In vitro research use only.

FASL antibodies, and other apoptosis related antibodies

Western Recycling Kit (re-use blots in just 5-10 min.
 New formulation will strip antibodies in just a few minutes at room temp. (No boiling or pungent mercaptoethanol).

FASL15-R-2-10

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