sFas Ligand Human Chinese Hamster Ovary Cells (CHO)

Product Data Sheet

Type: Recombinant
Source: Chinese Hamster Ovary Cells (CHO)
Species: Human
Other names: soluble Fas Ligand (sFasL), TNFSF6, CD95L, Apo I Ligand, APTL

Cat. No.:

RBG10129002	(2 µg)
RBG10129010	(10 µg)
RBG10129100	(100 µg)

Description

Fas Ligand (FasL) is a member of the TNF superfamily that is expressed on the cell surface of activated T cells. Binding of FasL to Fas Receptor triggers apoptosis in Fas-bearing cells. FasL has the ability to kill T cells and activated B cells, which leads to down-regulation of the immune response. The mechanism of Fas-induced apoptosis involves recruitment of pro-caspase 8 through an adaptor molecule called FADD, followed by processing of the pro-enzyme into active forms. These active caspases then cleave various cellular substrates, leading to the eventual cell death. Both human and murine sFasL are fully active on human and murine cells. Recombinant Human soluble Fas Ligand is a 17.9 kDa protein comprising the TNF-homologous region of FasL and contains an 8-residue N-terminal His-Tag.

Research topic

Apoptosis, Immune Response, Infection and Inflammation

Amino Acid Sequence

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HHHHHHHHPS PPPEKKELRK VAHLTGKSNS RSMPLEWEDT YGIVLLSGVK YKKGGLVINE TGLYFVYSKV YFRGQSCNNL
PLSHKVYMRN SKYPQDLVMM EGKMMSYCTT GQMWARSSYL GAVFNLTSAD HLYVNVSELS LVNFEESQTF FGLYKL
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Source

Chinese Hamster Ovary Cells (CHO)

Purity

95%

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 1×10^5 units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

-20°C

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