

**FasL/TNFSF6/CD95L/CD178, Human, Recombinant**

Cat. No. : PCK291

**General Information**

|                        |                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>        | soluble Fas Ligand (sFasL);TNFSF6;CD95L;Apo I Ligand;APTL;APT1LG1;CD178                                                                                                                                               |
| <b>Species</b>         | Human                                                                                                                                                                                                                 |
| <b>Expression host</b> | E.coli                                                                                                                                                                                                                |
| <b>Sequence</b>        | QIGHPSPPPEKKELRKVAHLTGKSNRSRMPLEWEDTYGIVLLSGVKYKKGGVLINETGLYFVYS<br>KVYFRGQSCNNLPLSHKVYMRNSKYPQDLVMMEGKMMSYCTTGQMWARSSYLGAVFNLTS<br>ADHLYVNVSELSLVNFEESQTFGLYKL with polyhistidine tag and sumo tag at the N-terminus |
| <b>Accession</b>       | P48023.1                                                                                                                                                                                                              |
| <b>Tag</b>             | His-SUMO tag at the N-terminus                                                                                                                                                                                        |
| <b>Mol mass</b>        | 17.31 kDa                                                                                                                                                                                                             |
| <b>Expiration date</b> | 12 months                                                                                                                                                                                                             |
| <b>Bio activity</b>    | Measure by its ability to induce apoptosis in Jurkat cells. The ED50 for this effect is < 1 ng/mL. The specific activity of recombinant human FasL is > 1 × 10 <sup>6</sup> IU/mg.                                    |

**Product feature**

|                          |                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>            | > 98% as determined by SDS-PAGE. Ni-NTA chromatography.                                                                                                                                                                                                                                                                    |
| <b>Endotoxin (EU/μg)</b> | < 0.1                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>           | Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months. |
| <b>Shipping</b>          | Ice bag                                                                                                                                                                                                                                                                                                                    |
| <b>Formulation</b>       | The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 8.0.                                                                                                                                                                                                                                    |
| <b>Reconstitution</b>    | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.                                                                                                                  |

**Background**

FasL is a member of the TNF superfamily, and is mainly expressed on the cell surface of activated T cells. FasL induces apoptosis in Fas-bearing cells by binding to Fas Receptor. FasL has the ability to leads to down-regulation of the immune response through killing T cells and activated B cells. 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.

### SDS-PAGE



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