

Product datasheet for **TP728211S**

Recombinant Flt-3 Ligand (Fms-related tyrosine kinase-3 ligand), Human

Product data:

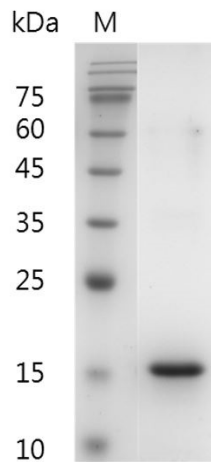
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| Product Type: | Recombinant Proteins |
| Description: | Recombinant Flt-3 Ligand (Fms-related tyrosine kinase-3 ligand), Human |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MTQDCSFQHSPISDFAVKIRELSDYLLQDYPVTVASNLQDEELCGGLWRLVLAQRWMERLKTAVGSKM QGLLERVNTEIHFVTKCAFQPPPSCLRFRVQTNISRLLQETSEQLVALKPWITRQNFRCLELQCQPDSSTLP PPWSPRPLEATAPTA with polyhistidine tag at the C-terminus. |
| Tag: | His Tag (C-term) |
| Predicted MW: | The protein has a calculated MW of 18.6 kDa. The protein migrates as 15-19 kDa under reducing condition (SDS-PAGE analysis). |
| Purity: | >95% as determined by SDS-PAGE. |
| Buffer: | The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0. |
| Bioactivity: | Measure by its ability to induce proliferation in BaF3 cells transfected with mouse Flt-3. The ED ₅₀ for this effect is <0.8 ng/mL. The specific activity of recombinant human Flt-3 Ligand is > 1.5 x 10 ⁶ IU/mg. |
| Endotoxin: | <0.1 EU per 1 µg of the protein by the LAL method. |
| Reconstitution Method: | Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein. |
| Applications: | Cell culture |
| Storage: | Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 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 -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles. |
| UniProt ID: | P49771 |
| Synonyms: | FL, FLG3L, FLT3L |



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Summary:

Fms-related tyrosine kinase-3 ligand (Flt-3 Ligand) is a protein which is encoded by the FLT3LG gene in human. As an important regulator of hematopoiesis, Flt-3 ligand has a tyrosine-protein kinase activity that stimulate the proliferation of hematopoietic progenitor cells of both lymphoid and myeloid origin. Flt-3 ligand can synergistically increase the proliferation of immature progenitors with other cytokines such as GM-CSF, G-CSF, IL-3, EPO, IL-11, IL-12, IL-6 or TPO. Flt-3 ligand is expressed by a variety of hematopoietic progenitor cells including immature hematopoietic and

Product images:


SDS- PAGE analysis of recombinant human Flt-3 Ligand