

Product datasheet for **TP728176**

Recombinant CXCL12 (24-88) (C-X-C motif chemokine 12), Human

Product data:

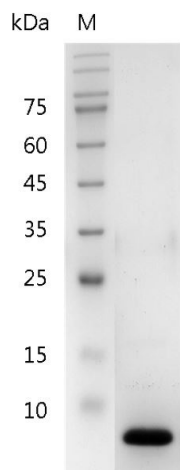
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| Product Type: | Recombinant Proteins |
| Description: | Recombinant CXCL12 (24-88) (C-X-C motif chemokine 12), Human |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MVLSYRCPCRFFESHVARANVKHLKILNTPNCALQIVARLKNNNRQVCIDPKLKWIQEYLEKALN with polyhistidine tag at the C-terminus. |
| Tag: | His Tag (C-term) |
| Predicted MW: | The protein has a calculated MW of 8.55 kDa. The protein migrates as 10 kDa under reducing condition (SDS-PAGE analysis). |
| Purity: | >98% as determined by SDS-PAGE. |
| Buffer: | The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate, 0.1 M NaCl, pH 4.5. |
| Bioactivity: | Measure by its ability to chemoattract BaF3 cells transfected with human CXCR4. The ED ₅₀ for this effect is <0.5 ng/mL. |
| 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: | P48061 |
| Synonyms: | IRH, PBSF, SCYB12, SDF1, TLSF, TPAR1 |



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Summary:

C-X-C motif chemokine 12 (CXCL12) also named stromal cell-derived factor 1 (SDF-1), which is a chemokine of the intercrine alpha family. CXCL12 is a 19.5kDa protein containing 167 amino acid residues. The function of CXCL12 include the hematopoiesis, angiogenesis embryogenesis, inflammation and angiogenesis. CXCL12 activated by the IL-1, TNF or lipopolysaccharide and induce the immune response in leukocytes.

Product images:

SDS- PAGE analysis of recombinant human CXCL12