

Product datasheet for **TP728238S**

Recombinant IL-12 p35 (Interleukin-12 p35), Human

Product data:

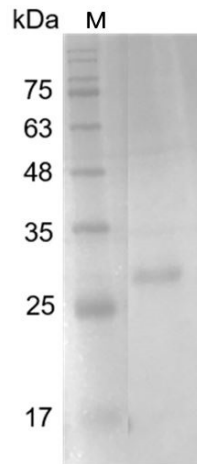
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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant IL-12 p35 (Interleukin-12 p35), Human |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MRNLPVATPDPGMFPCLHHSQNLLRAVSNMLQKARQTLEFYPCTSEEIDHEDITKDKTSTVEACLPLELTK NESCLNSRETSFITNGSCLASRKTSFMMALCLSSIIYEDLKMYQVEFKTMNAKLLMDPKRQIFLDQNMLAVI DELMQALNFNSETVPQKSSLEEPDFYKTKIKLCILLHAFRIRAVTIDRVMSYLNAS with polyhistidine tag at the C-terminus. |
| Tag: | His Tag (C-term) |
| Predicted MW: | The protein has a calculated MW of 23.48 kDa. The protein migrates as 28 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: | Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBMC). The ED ₅₀ for this effect is <49 pg/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: | P29459 |
| Synonyms: | Interleukin-12 subunit alpha, IL-12 subunit p35, IL-12A, Cytotoxic Lymphocyte Maturation Factor 35 kDa |



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Summary:

Interleukin 12 (IL-12) is a pro-inflammatory cytokine with a molecular weight of 70 kDa composed of two subunits, IL-12p35 (35 kDa) and IL-12p40 (40 kDa), and IL-12p35 as a p35-p35 homodimer with 57 kDa molecular weight and a p35 monomer of 27 kDa molecular weight. The p35 molecule is unique to IL-12, while p40 is shared by both IL-12 and IL-23. IL-12 promotes Th1 T cell responses, while IL-23 promotes Th17 T cell responses.

Product images:

SDS- PAGE analysis of recombinant human IL-12 p35