


Product datasheet for **TP728359**

Recombinant IL-4 (Interleukin-4) Mouse

Product data:

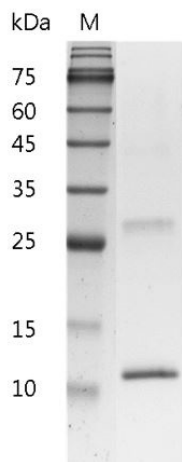
| | |
|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant IL-4 (Interleukin-4)  Mouse |
| Species: | Mouse |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MHIHGCDKNHLREIIGILNEVTGEGTPCTEMDVPNVLATKNTTESELVCRASKVLRIFYLKHGKTPCLKKN SSVLMELQRLFRFRCLDSSISCTMNESKSTSLKDFLESLKSIMQMDYS with polyhistidine tag at the C-terminus. |
| Tag: | His Tag (C-term) |
| Predicted MW: | The protein has a calculated MW of 14.5 kDa. The protein migrates as 14 kDa under reducing condition (SDS-PAGE analysis). |
| Purity: | >98% as determined by SDS-PAGE. |
| Buffer: | The protein was lyophilized from a 0.2 μ m filtered solution containing 1X PBS, pH 7.4. |
| Bioactivity: | Measure by its ability to induce HT-2 cells proliferation. The ED ₅₀ for this effect is <1 ng/mL. The specific activity of recombinant mouse IL-4 is approximately >1 x 10 ⁶ IU/mg. |
| Endotoxin: | <0.1 EU per 1 μ g 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 μ g/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: | P07750 |
| Synonyms: | BCGF, BCDF, B-cell Stimulating Factor (BSF-1) |



[View online »](#)

Summary:

Interleukin-4 (IL-4) is a key cytokine produced by activated T cells, mast cells, basophils, neutrophils and eosinophils. IL-4 is critical for the development of Th2-mediated responses, which is related to allergy and asthma. It can also regulate B cell responses, including survival, cell proliferation and gene expression. IL-4 also plays fundamental role for B-cell stimulation, including induction of the IgE isotype switch.

Product images:

SDS- PAGE analysis of recombinant mouse IL-4