

Product datasheet for **TP728251M**

Recombinant IL-23 p19 (Interleukin-23 p19), Human

Product data:

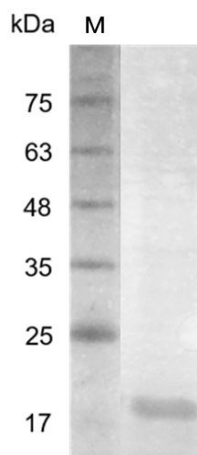
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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant IL-23 p19 (Interleukin-23 p19), Human |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | RAVPGGSSPAWTQCQQLS QKLCTLAWSAHLVGHMDLREEGDEETTNDVPHIQCGDGC DPQGLRDNS QFCLQRIHQGLIFYEKLLGSDIFTGEPSLLPDSPVGQLHASLLGLSQLLQPEGHHWETQQIPSLSPSQPWQ RLLLRFKILRSLQAFVAVAAARVFAHGAATLSP with polyhistidine tag at the N-terminus. |
| Tag: | His Tag (N-term) |
| Predicted MW: | The protein has a calculated MW of 19.49 kDa. The protein migrates as 17 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 by its ability to induce IL-17 secretion in mouse splenocytes. 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: | <u>Q9NPF7</u> |
| Synonyms: | IL-23, IL-23A, SGRF |



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Summary:

Interleukin 23 p19(IL-23p19) predicts a molecular mass of 20.7 kDa. Interleukin 23 is a heterodimeric cytokine composed of an IL-12p40 subunit that is shared with IL-12 and the IL-23p19 subunit. The receptor of IL23 is formed by the beta 1 subunit of IL12 (IL12RB1) and an IL23 specific subunit, IL23R. Both IL23 and IL12 can activate the transcription activator STAT4 and stimulate the production of interferon-gamma (IFN-gamma).

Product images:


SDS- PAGE analysis of recombinant human IL-23 p19