

Product datasheet for **TP728346M**

Recombinant IL-22 (Interleukin-22), Mouse

Product data:

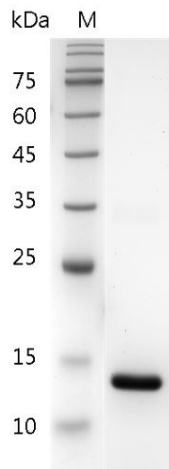
Product Type:	Recombinant Proteins
Description:	Recombinant IL-22 (Interleukin-22), Mouse
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MLPVNTRCKLEVSNFQQPYIVNRTFMLAKEASLADNNTDVRLLIGEKLFRGVSAKDQCYLKQVLNFTLEDVLLPQSDRFQPYMQEVVPLTKLSNQLSSCHISGDDQNIQKNVRRLLKETVKKLGESGEIKAIGELDLLFMSLRNACV with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 17.58 kDa. The protein migrates about 17 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 1X PBS, pH 7.4.
Bioactivity:	Measure by its ability to induce IL-10 secretion in COLO205 cells. The ED ₅₀ for this effect is <0.3 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>Q9JY9</u>
Synonyms:	IL-TIF, Cytokine ZCYTO18, If2b1, ILTIFa



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Summary:

Interleukin 22 (IL-22) is an α -helical cytokine, predicts a molecular mass of 16.9 kDa. It is produced by T-helper (Th)-17 cells, $\gamma\delta$ T cells, NKT cells and newly described innate lymphoid cells (ILCs). Effects involve stimulation of cell survival, proliferation and synthesis of antimicrobials including S110, Reg3 β , Reg3 γ and defensins.

Product images:

SDS- PAGE analysis of recombinant mouse IL-22