

Product datasheet for **TP728268M**

Recombinant IL-37 (Interleukin-37), Human

Product data:

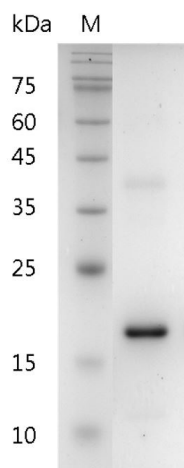
Product Type:	Recombinant Proteins
Description:	Recombinant IL-37 (Interleukin-37), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MKNLNPKKFSIHDQDHKVLVLDSGNLI AVDPKNYIRPEIFFALASSLSSASAEKGSPI LLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKLA AQKESARRPFIFYRAQVGSWNMLESA AHPGWFICTSCNCNEPVGVTDFENRKHIEFSFQPVCKAEMSPSEVSD with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 19.49 kDa. The protein migrates as 22 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:	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED ₅₀ for this effect is <0.9 µg/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>Q9NZH6</u>
Synonyms:	IL-1F7, IL-1ζ (zeta), IL-1H4, FIL1, FIL1Z



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Summary:

Interleukin-37 (IL-37) consists of 192 amino acids. IL-37 is a member of the interleukin-1 cytokine family. The primary function is binding to the interleukin-18 receptor (IL18R1 /IL-1Rrp) and then becoming a subunit to inhibit the activity of IL-18. This behavior often occurs between various immune responses. It also significantly affects the negative regulation of tumor necrosis factor production.

Product images:

SDS- PAGE analysis of recombinant human IL-37