

IL-37/IL-1F7/IL-1H4, Human, Recombinant

Cat. No. : PCK196

General Information

Synonyms	IL-1F7;IL-1 ζ (zeta);IL-1H4;FIL1;FIL1Z
Species	Human
Expression host	E.coli
Sequence	MKNLNPKKFSIHDDQDHKVLVLDSGNLI AVDPDKNYIRPEIFFALASSLSSASAEKGSPILLGVSKG EFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLESAAHPGWFICT SCNCNEPVGVTDFENRKHIEFSFQPVCKAEMSPSEVSD with polyhistidine tag at the C-terminus.
Accession	Q9NZH6.1
Tag	His-tag at the C-terminus
Mol mass	19.49 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED50 for this effect is < 0.9 μ g/mL.

Product feature

Purity	> 95% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°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 -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μ m filtered solution containing 1 $\times$ PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μ g/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Decreasing synthesis of IL-37 in PBMCs will cause increasing production of pro-inflammatory cytokines such as IL-1 alpha, IL-1 beta, IL-6 and TNF-alpha. The IL-37 work as an innate inflammatory inhibitor is also proved by its high expression in synovial tissue from rheumatoid arthritis patients. Full length IL-37 locates mainly in the cytoplasm, and it can translocate to the nucleus after activation through cleavage by CASP1, then exerts its activity by directly interacting with SMAD3.

SDS-PAGE

