

**Product:** **Recombinant Human Interleukin-32 alpha / IL-32 $\alpha$**   
**Cat #: 300-152P**  
Powder

Description	Interleukin 32 alpha (IL-32 $\alpha$ ) is one of approximately six splice variants of the IL-32 gene. IL-32 $\alpha$ has been shown to induce IL-8, TNF $\alpha$ , and MIP-2 production from human & mouse macrophage cell lines. IL-32 $\alpha$ is up-regulated in activated T cells, natural killer cells, and IFN $\gamma$ -treated epithelial cells. Alternate names: NK4
MW	Non-glycosylated protein, containing 131 amino acids, with a molecular weight of 14.9 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant human IL-32 $\alpha$ is lyophilized from 50 mM Na <sub>2</sub> PO <sub>4</sub> , pH 7.5.
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the dose-dependent induction of TNF $\alpha$ production from human PBMCs and is typically in the range of 0.125-1.0 $\mu$ g/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically $\leq$ 1 EU/ $\mu$ g protein.
AA Sequence	MCFPKVLSDD MKKLGKARMHQ AIERFYDKMQ NAESGRGQVM SSLAELEDDF KEGYLETVAAY YEEQHPFLT PLLEKERDGL RCRGNRSPVP DVEDPATEEP GESFCDKSYG APRGDKEELT PQCSEPPQSS K

Purity greater than 97% determined by Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**