

## Recombinant Human IL-32 $\alpha$

**Catalog#:** 4189-10 10  $\mu$ g  
4189-100 100  $\mu$ g  
4189-1000 1 mg

**Lot#:** \_\_\_\_\_

**Description:** Human IL-32 alpha is one of approximately 6 splice variants of a gene cloned from the human lung carcinoma stable transfectant, A549-Rbeta. IL-32 alpha has been shown to induce IL-8, TNF- $\alpha$ , and MIP-2 production from human & mouse macrophage cell lines. It is up-regulated in activated T- & NK-cells, and IFN- $\gamma$ -treated epithelial cells. Human recombinant IL-32 alpha produced in E. coli is a 131 amino acid non-glycosylated polypeptide with a molecular mass of 14.9 kDa.

**Physical Appearance:** Sterile Filtered white lyophilized (freeze-dried) powder.

**Source:** E.coli

**Formulation:** Lyophilized from 50 mM NaP, pH 7.5.

**Reconstitution:** It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg's/ml, which can be further diluted into other aqueous solutions.

**Stability:** Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

**Purity:** Greater than 97% as determined by reducing and non-reducing SDS-PAGE.

**Endotoxin Level:** Endotoxin level is <0.01 ng/ug or <0.1 EU/ug.

**Protein Content:** Determined by UV spectroscopy at 280 nm.  
Quantitation on SDS-PAGE against a known standard.

**Biological Activity:** Human IL-32 alpha activity is measured via the dose-dependent induction of TNF-alpha in the human THP-1 monocytic cell line.

**AA Sequence:** MCFPKVLSDD MKKCLKARMHQ AIERFYDKMQ NAESGRGQVM SSLAELEDDF KEGYLETVAA  
YYEEQHPELT PLEKERDGL RCRGNRSPVP DVEDPATEEP GESFCDKSYG APRGDKEELT  
PQKCSEPPSS K

**FOR RESEARCH USE ONLY! Not to be used in humans.**