Recombinant Human IL-32α

(Interleukin-32 alpha)

Catalog Number: 100-151

Accession Number: AAS80146

Specifications and Uses:

Alternate Names: NK4

Description:
Interleukin 32 alpha (IL-32α) is one of approximately six splice variants of the IL-32 gene. IL-32α has been shown to induce IL-8, TNFα, and MIP-2 production from human & mouse macrophage cell lines. IL-32α is up-regulated in activated T cells, natural killer cells, and IFNγ-treated epithelial cells. Recombinant human IL-32α is a non-glycosylated protein, containing 131 amino acids, with a molecular weight of 14.9 kDa.

Source: *E.coli*

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

Formulation and Stability:
Recombinant human IL-32α is lyophilized from 50 mM Na_2PO_4, pH 7.5.
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.

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.

Protein Content and Purity (typically ≥ 97%) determined by:
Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:
Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.

Biological Activity:
The activity is determined by the dose-dependent induction of TNFα production from human PBMCs and is typically in the range of 0.125-1.0 µg/mL.

AA Sequence:
MCFPKVLSDD MKKLKARMHQ AIERFYDKMQ NAESGRGQVM SSLAELEDDF KEGYLETVAA YYEEQHPELT PLLEKERDGL RCRGNRSPVP DVEDPATEEP GESFCDKSYG APRGDKEELT PQKCSEPQSS K

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

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