DATA SHEET

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GFH151 Recombinant Human IL-32 α

Description

Interleukin-32 α (IL-32 α) is one of six known splice variants of the IL-32 gene. IL-32 α induces the macrophage production of inflammatory cytokines, such as interleukin-8 (IL-8), Tumor Necrosis Factor α (TNF-α), and Macrophage Inflammatory Protein 2 (MIP-2). IL-32 α expression is increased after the activation of T cells, Natural Killer (NK) cells, and interferon γ-treated epithelial cells.

Length	141 aa
Molecular Weight	15.7 kDa
Source	E. coli
Accession Number	Q6EAL8
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

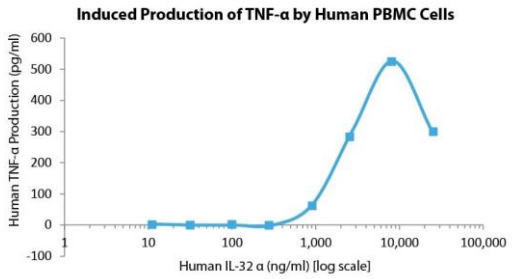
Specifications

Alternative Names	Interleukin-31, interleukin 31, IL31, IL 31
Biological Activity	Human IL-32 α is fully biologically active when compared to standard. The activity is determined by the induced production of TNF-α from human PBMC cells.
Endotoxin Level	≤1.00 EU/µg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MTCSLSFGAP ISKEDLRTTI DLLKQESQDL YNNYSIKQAS GMSADESIQL PCFSLDREAL TNISVIIAHL EKVKVLSENT VDTSWVIRWL TNISCFNPLN LNISVPGNTD ESYDCKVFVL TVLKQFSNCM AELQAKDNTT C

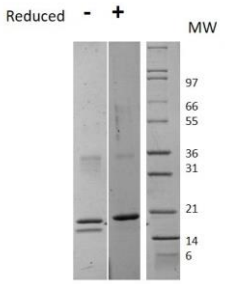
Preparation and Storage

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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced production of TNF-α from human PBMC cells for Human IL-32 α. Cell proliferation was measured to calculate the ED50.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 µg of protein was loaded in each lane. Human IL-32 α has a predicted Mw of 14.9 kDa.