

## Animal-Free IL-32 alpha Protein, Human (His)

Cat. No.:	HY-P700124AF
Synonyms:	IL-32alpha; IL-32beta; IL-32delta; IL-32gamma; NK4; TAIF; TAIFa; TAIFb; TAIFc; TAIFd
Species:	Human
Source:	E. coli
Accession:	P24001-4 (M1-K131)
Gene ID:	9235
Molecular Weight:	Approximately 15.72 kDa

### PROPERTIES

AA Sequence	M C F P K V L S D D    M K K L K A R M H Q    A I E R F Y D K M Q    N A E S G R G Q V M S S L A E L E D D F    K E G Y L E T V A A    Y Y E E Q H P E L T    P L L E K E R D G L R C R G N R S P V P    D V E D P A T E E P    G E S F C D K S Y G    A P R G D K E E L T P Q K C S E P Q S S    K
Biological Activity	Measure by its ability to induce TNF alpha secretion in RAW264.7 cells. The ED <sub>50</sub> for this effect is <10 µg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	IL-32 alpha protein, classified as a cytokine, is implicated in both innate and adaptive immune responses. This protein demonstrates the ability to induce the expression of various cytokines, including TNFA/TNF-alpha and IL8, thereby influencing the inflammatory milieu. Furthermore, the signaling pathways triggered by IL-32 alpha encompass the canonical pathways of NF-kappa-B and p38 MAPK, highlighting its involvement in orchestrating diverse cellular responses associated with immune regulation. This underscores the potential significance of IL-32 alpha in the intricate network of immune signaling cascades, contributing to the modulation of inflammatory and immune processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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