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Interleukin-32 alpha, human recombinant (rHuIL-32a)

Catalog No: 08533
Lot No: XXXXX
Source: *E. coli*
Synonyms: NK4, TAIF, TAIFa, TAIFb, TAIFc, TAIFd, IL-32beta, IL-32alpha, IL-32delta, IL-32gamma, Interleukin-32, IL-32, Natural killer cells protein 4, Tumor necrosis factor alpha-inducing factor, IL-32a, IL32a, IL32, Interleukin-32 alpha

Background

IL-32 is part of the cytokine family and contains a tyrosine sulfation site, 3 potential N-myristoylation sites, multiple putative phosphorylation sites, and an RGD cell-attachment sequence. IL-32 expression is elevated after the activation of T-cells by mitogens or the activation of NK cells by IL-2. IL-32 induces the production of TNF- α from macrophage cells. IL-32 pro-inflammatory pathway is activated in response to influenza A virus infection. Dysregulation of IL-32 in myelodysplastic syndrome and chronic myelomonocytic leukemia modulates apoptosis and impairs NK function. Induction of TNF, IL-1 β , and IL-6 by IL-32 is intervened by p38-MAPK. IL-32 induced monocyte-to-macrophage differentiation is mediated through nonapoptotic, caspase-3-dependent mechanisms. IL32 plays an important role in the pathogenesis of rheumatoid arthritis. IL-32 is involved in activation-induced cell death in T cells, through its intracellular actions. IL-32 is a cell-associated proinflammatory cytokine, which is particularly stimulated by mycobacteria through a caspase-1- and IL-18-dependent production of interferon gamma. IL-32 is associated with TNF- α , IL-1 β , and IL-18. IL32 is involved in human rheumatoid arthritis and is a novel target in autoimmune diseases.

Description

Interleukin-32 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 131 amino acids and having a molecular mass of 14.9 kDa.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

IL-32 was lyophilized from a concentrated (1 mg/ml) solution in water containing 50 mM sodium phosphate buffer pH 7.5.

Solubility

It is recommended to reconstitute the lyophilized Interleukin-32 in sterile 18 M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized IL-32, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-32 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

MCFFPKVLSDD MKKLLKARMHQ AIERFYDKMQ NAESGRGQVM SSLAELEDDF KEGYLETVAA YYEEQHPFLT PLEKERDGL
RCRGNRSPVP DVEDPATEEP GESFCDKSYG APRGDKEELT PQCCEPQSS K



Activity

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

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.