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32-1513: IL 32A Recombinant Protein

Alternative Name : 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.

Description

Source : Escherichia Coli. 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. 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-a 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-1beta, 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-a, IL-1beta, and IL-18. IL32 is involved in human rheumatoid arthritis and is a novel target in autoimmune diseases.

Product Info

Amount :	10 µg
Purification :	Greater than 97.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	IL-32 was lyophilized from a concentrated (1mg/ml) solution in water containing 50mM sodium Phosphate buffer pH=7.5.
Storage condition :	Lyophilized IL32 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL32 should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.
Amino Acid :	MCFPKVLSDD MKKLKARMHQ AIERFYDKMQ NAESGRGQVM SSLAELEDDF KEGYLETVAA YYEEQHPELT PLLEKERDGL RCRGNRSPVP DVEDPATEEP GESFCDKSYG APRGDKEELT PQKCSEPQSS K.

Application Note

It is recommended to reconstitute the lyophilized IL-32 in sterile 18MÃ□Â©-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. Human IL-32 alpha activity is measured via the dose-dependent induction of TNF-alpha in the human THP-1 monocytic cell line.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.