

IL-22 Protein, Mouse (His-Avi)

Cat. No.:	HY-P78150
Synonyms:	Interleukin-22; IL-22; Cytokine Zcyto18; IL-TIF; IL-D110; TIFa; TIFIL-23; ZCYTO18
Species:	Mouse
Source:	E. coli
Accession:	Q9JJY9 (L34-V179)
Gene ID:	50929
Molecular Weight:	Approximately 19.7 kDa

PROPERTIES

Biological Activity	Immobilized Biotinylated Mouse IL-22, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Mouse IL-22R alpha 1, hFc Tag with the EC ₅₀ of 6.2ng/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Na ₂ CO ₃ /NaHCO ₃ , 500 mM NaCl, pH 10.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>IL-22 is a secreted IL-10 family cytokine that plays a critical role in modulating tissue responses during inflammation, reactive oxygen species metabolic process as well as the regeneration and spreading of epithelial cells^{[1][2][3][4]}.</p> <p>IL-22 is produced by several T cells, ILC3, neutrophils and macrophages, IL-22 has a specific receptor which is composed of IL-22R1 and IL-10R2, presenting on non-immune cells in many organs. Ligation of IL22RA1 with IL22 induces activation of the tyrosine kinases JAK1 and TYK2, which activates STAT3, and p38 MAPK, in turn, promotes cell survival and proliferation through STAT3, ERK1/2, MAPK and PI3K/AKT pathways. IL-22 promotes phosphorylation of GSK3B at 'Ser-9' and CTTN as well^[5].</p> <p>IL-22 gets positive regulation from IL-23, IL-1β, IL-7, AhR and Notch, IL-22 gets negative regulation from IL-22BP, TGF-β, IL-27, ICOS, c-Maf and IL-25^[6].</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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