

Recombinant Human IL22 Protein, His-tagged

Cat. No. IL22-217H Lot. No. (See product label)

SPECIFICATION

Product Overview Biotinylated Recombinant Human Interleukin-22 is produced by Human 293 Cells. The target gene encoding A34-I179 is expressed with a 6His tag at the C terminus.

Species Human

Source HEK293

ProteinLength 34-179 a.a.

Description Interleukin-22 (IL22) is a cytokine that belongs to the IL-10 family or IL-10 superfamily, a class of potent mediators of cellular inflammatory responses. IL-22 is produced by activated DC and T cells and initiates innate immune responses against bacterial pathogens especially in epithelial cells such as respiratory and gut epithelial cells. IL-22 initiated its biological activity by binding to a cell-surface complex composed of IL-22R1 and IL-10R2 receptor chains and further regulated by interactions with a soluble binding protein IL-22BP. IL-22 can contribute to immune disease through the stimulation of inflammatory responses, S1s and defensins. IL-22 also promotes hepatocyte survival in the liver and epithelial cells in the lung and gut.

Form Lyophilized from a 0.2 um filtered solution of PBS, pH7.2.

Molecular Mass Predicted Molecular Weight: 20.8kDa
Apparent Molecular Weight: Biotinylated IL-22 protein appeared as a smear between 25-40kDa in a reducing SDS-PAGE gel due to glycosylation.

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AA Sequence	A34-I179
Endotoxin	Less than 0.1 EU/ug.
Purity	>95%
Storage	<p>Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.</p> <p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p>
Reconstitution	<p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Quality Statement	Purity: greater than 95% as determined by reducing SDS-PAGE
Shipping	<p>The product is shipped on dry ice pack.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
GENE INFORMATION	
Gene Name	IL22 interleukin 22 [Homo sapiens (human)]
Official Symbol	IL22
Synonyms	Interleukin-22; IL-22; Cytokine Zcyto18; IL-10-related T-cell-derived-inducible factor; IL22; ZCYTO18; TIFa; IL-21; IL-22; ILTIF; IL-TIF; IL-D110; zcyto18; TIFIL-23
Gene ID	50616

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mRNA Refseq	NM_020525.5
Protein Refseq	NP_065386.1
MIM	605330
UniProt ID	Q9GZX6

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