

Recombinant Human IL22 Protein, hIgG2 Fc-tagged

Cat. No. IL22-83H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Interleukin-22 is produced by our Mammalian expression system and the target gene encoding Ala34-Ile179 is expressed with a hIgG2 Fc tag at the C-terminus.
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Species	Human
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Source	Human Cells
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ProteinLength	Ala34-Ile179
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Description	Interleukin-22(IL-22) is a member of a group of the IL-10 family, a class of potent mediators of cellular inflammatory responses. IL-22 is produced by activated DC and T cells. IL-22 and IL-10 receptor chains play a role in cellular targeting and signal transduction. It can initiate and regulate innate immune responses against bacterial pathogens especially in epithelial cells such as respiratory and gut epithelial cells. IL-22 along with IL-17 likely plays a role in the coordinated response of both adaptive and innate immune systems. IL-22 also promotes hepatocyte survival in the liver and epithelial cells in the lung and gut similar to IL-10. Biological activity of IL-22 is initiated by binding to a cell-surface complex consisting of IL-22R1 and IL-10R2 receptor chains. IL-22 biological activity is further regulated by interactions with a soluble binding protein, IL-22BP. IL-22BP and an extracellular region of IL-22R1 share sequence similarity. In some cases, the pro-inflammatory versus tissue-protective functions of IL-22 are regulated by cytokine IL-17A.
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Form	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4.
AA Sequence	APISSHCRLDKSNFQQPYITNRTFMLAKEASLADNNTDVRDIGEKLFHGVSMSERCY LMKQVLNFTLEE VLFPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQ KLKDTVKKLGESGEIKAIGELDLLFM SLRNACIGGGGSGGGGSGGGGSEKCCVEC PPCPAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVV DVSHEDPEVQFNWYVDGM EVHNAKTKPREEQFNSTFRVSVLTVVHQDWLNGKEYKCKVSNKGLPA PIEKTISK TKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT PPMLD SDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>95%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. 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.
Quality Statement	Purity: Greater than 95% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

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;

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IL-TIF; TIFa; IL-21; IL-22; ILTIF; IL-D110; zcyto18; TIFIL-23

Gene ID 50616

mRNA Refseq NM_020525.5

Protein Refseq NP_065386.1

MIM 605330

UniProt ID Q9GZX6

SDS-PAGE

