

Active Recombinant Mouse IL22 Protein, His-Tagged

Cat. No. IL22-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse IL22 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	Interleukin-22 (IL-22) a member of a group of cytokines called the IL-10 family or IL-10 superfamily (including IL-19, IL-20, IL-24, and IL-26), a class of potent mediators of cellular inflammatory responses. It shares use of IL-10R2 in cell signaling with other members of this family, IL-10, IL-26, IL-28A/B and IL-29. IL-22 is produced by activated NK and T cells and initiates innate immune responses against bacterial pathogens especially in epithelial cells such as respiratory and gut epithelial cells. IL-22 along with IL-17 is rapidly produced by splenic LTI-like cells and also produced by Th17 cells and likely plays a role in the coordinated response of both adaptive innate immune systems, autoimmunity and tissue regeneration.
Form	Lyophilized powder
AA Sequence	MLPVNTRCKLEVSNFQQPYIVNRTFMLAKEASLADNNTDVRLIGEKLFGRGVSAKDQC YLMKQVLNFTLEDVLLPQSDRFQPYMQEVVPFLTK LSNQLSSCHISGDDQNIQKNVRRRLKETVKKLGESGEIKAIGELDLLFMSLRNACV with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.

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Bio-activity	Measure by its ability to induce IL-10 secretion in COLO205 cells. The ED50 for this effect is <0.3 ng/mL.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	IL22 interleukin 22 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL22
Synonyms	L-22; If2b1; Iltif; IL-22a; ILTIFa
Gene ID	50929
mRNA Refseq	NM_016971.2
Protein Refseq	NP_058667.1
UniProt ID	Q14BB3

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