

## Active Recombinant Mouse Il22 Protein, His-Tagged

Cat. No. II22-01M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Il22 Protein, His-tagged was expressed in E. coli cell
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Lyophilized powder
<b>AA Sequence</b>	MLPVNTRCKLEVSNFQQPYIVNRTFMLAKEASLADNNTDVRLIGEKLFGRGVSAKDQC YLMKQVLNFTLEDVLLPQSDRFQPYMQEVVPFLTK LSNQLSSCHISGDDQNIQKNVRRRLKETVKKLGESGEIKAIGELDLLFMSLRNACV with polyhistidine tag at the C-terminus
<b>Endotoxin</b>	<0.1 EU per 1 µg of the protein by the LAL method.

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<b>Bio-activity</b>	Measure by its ability to induce IL-10 secretion in COLO205 cells. The ED50 for this effect is <0.3 ng/mL.
<b>Purity</b>	>98% as determined by SDS-PAGE. Ni-NTA chromatography
<b>Storage Buffer</b>	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Reconstitution</b>	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.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Notes</b>	Please use within one month after protein reconstitution.

## GENE INFORMATION

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

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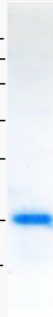
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