

## Recombinant Human Interleukin 22, HQ-tagged

**Cat. No.** IL22-637H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant humanIL22 contains 146 amino acids and a 16 aa HQ tag. Total length is 162 aa.
<b>Species</b>	Human
<b>Source</b>	Hordeum Vulgare
<b>Description</b>	IL22 is proteinthat in humans is encoded by the IL22 gene. IL22 a member of a group ofcytokines 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 cellularinflammatory responses. It shares use of IL-10R2 in cell signaling with othermembers of this family, IL-10, IL-26, IL-28A/B and IL-29. IL22 is produced byactivated DC and T cells and initiates innate immune responses againstbacterial pathogens especially in epithelial cells such as respiratory andgut epithelial cells. IL22 along with IL-17 is rapidly produced by splenicLTi-like cells and can be also produced by Th17 cells and likely plays a rolein the coordinated response of both adaptive and innate immune systems.
<b>Form</b>	Lyophilized from a0.2 µ sterile filtered solution of PBS, pH 7.2.
<b>Molecular Weight</b>	18.9 kDa includingHQ tag. The glycosylated IL22 migrates as 3 bands with an apparent MW = 22,24, 26 kDa in SDS-PAGE.
<b>Purity</b>	>98% by SDS-PAGE.Purified product carries no pyrogenic or pro-inflammatory contaminants, asassayed with monocyte activation test using custom human Multiplex CytokineAssay measuring IL-6, TNF-alpha and IL-1beta induction.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin Level</b>	< 0.005 ng perg of product (0.05 EU/g) as measured by turbidimetric kinetic assay.
<b>Biological Activity</b>	Bioactivity is assayed by measuring the dose dependent effect of human IL22 on proliferation of Ba/F3 cells transfected with mouse IL22 receptor. The ED50 for a typical batch of recombinant human IL22 is 2.2 ng/ml.
<b>Reconstitution</b>	Centrifuge vial prior to opening. Reconstitute the lyophilized protein in sterile water to a concentration of no less than 100 g/ml.
<b>Storage</b>	The lyophilized protein, though stable at room temperature for two weeks, is best stored at -20°C. Reconstituted protein should be used immediately or stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.
<b>Official Symbol</b>	IL22

## GENE INFORMATION

<b>Gene Name</b>	IL22 interleukin 22 [ <a href="#">Homo sapiens</a> ]
<b>Synonyms</b>	IL22; interleukin22; TIFa; IL-21; IL21; IL-22; ILTIF; IL-TIF; IL-D110; zcyto18; ZCYTO18; MGC79382; MGC79384; TIFIL-23; interleukin-22; interleukin 21; cytokine Zcyto18; Cytokine Zcyto18; OTTHUMP00000240117; IL-10-related T-cell-derived inducible factor; IL-10-related T-cell-derived-inducible factor
<b>Gene ID</b>	<a href="#">50616</a>
<b>mRNA Refseq</b>	<a href="#">NM_020525</a>
<b>Protein Refseq</b>	<a href="#">NP_065386</a>
<b>MIM</b>	<a href="#">605330</a>

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<b>UniProt ID</b>	Q9GZX6
<b>Chromosome Location</b>	12q15
<b>Pathway</b>	Cytokine-cytokinereceptor interaction; Jak-STAT signaling pathway
<b>Function</b>	cytokine activity;interleukin-22 receptor binding
<b>Crystallographic structure of IL-22 (rainbow colored, N-terminus = blue, C-terminus = red) complexed with the IL-22R1 (magenta).</b>	

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