Recombinant Human Interleukin 22

Cat. No. IL22-555H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IL22 HumanRecombinant produced in E. Coli is a single, non-glycosylated homodimericpolypeptide chain containing 2 x 146 amino acids and having a total MW 33.607kDalton.
Species	Human
Source	Human
Description	Interleukin-22 (IL22)is protein that in humans is encoded by the IL22 gene. IL22 a member of agroup of cytokines called the IL-10 family or IL-10 superfamily (includingIL-19, IL-20, IL-24, and IL-26), a class of potent mediators of cellular inflammatoryresponses. It shares use of IL-10R2 in cell signaling with other members ofthis family, IL-10, IL-26, IL-28A/B and IL-29.
Form	Lyophilized.Each mg contains 1.6 mg mannitol and 1.2 mg HSA.
Purity	Greater than 97.0%by SDS-PAGE gel and RF-HPLC.
Sequence	The sequence of thefirst five N-terminal amino acids is Met-Ala-Pro-Ile-Ser.
Molecular Weight	33.607kDalton
Biological Activity	BiologicalAcitivity was determined by the ability to activiate STAT following receptor ligandinteraction.

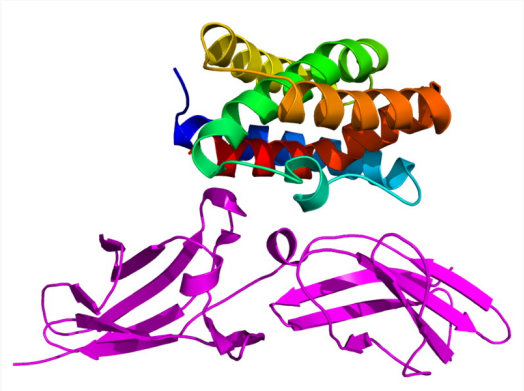
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Endotoxin Level	Less than0.1 ng per g (1 EU/g) of protein.
Reconstitution	Centrifugevial prior to opening. First add sterile water to the vial to fullysolubilize the protein to a concentration not less than 100 g/ml. After completesolubilization of the protein, it can be further diluted to other aqueoussolutions.
Storage	Lyophilizedsamples are stable at room temperature for 3 weeks, but it is recommended tostore them desiccated at -20°C to -80°C. Upon reconstitution, protein shouldbe stored at 2-4°C for one week and for six months at -20°C to -80°C. Add acarrier protein (0.1% HSA or BSA) as a stabilizer for long term storage.Avoid repeated freeze-thaw cycles.
OfficialSymbol	IL22

GENE INFORMATION

Gene Name	IL22interleukin 22 [Homo sapiens]
Synonyms	IL22; interleukin 22; TIFa; IL21; IL-21; IL-22; ILTIF; IL-TIF;IL-D110; zcyto18;ZCYTO183; MGC79382; MGC79384; TIFIL-23; interleukin 21;interleukin-22;cytokine Zcyto18; OTTHUMP00000240117; IL-10-related T-cell-derived inducible factor; IL-10-related T-cell-derived-inducible factor
Gene ID	50616
mRNA Refseq	NM_020525
Protein Refseq	NP_065386
MIM	605330

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UniProt ID	Q9GZX6
Chromosome Location	12q15
Pathway	Cytokine-cytokinereceptor interaction; Jak-STAT signaling pathway
Function	cytokineactivity; interleukin-22 receptor binding
Crystallographicstructu of IL-22 (rainbow colored, N-terminus blue, C-terminus red)complexed with the IL-22R1 (magenta).	

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