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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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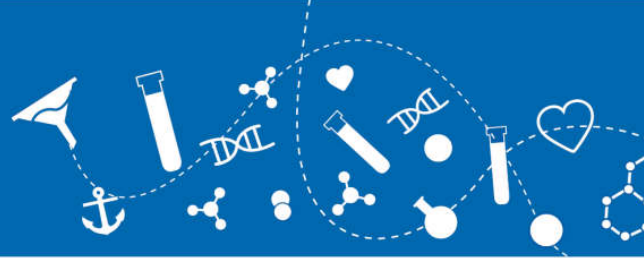
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Interleukin-22, PEGylated, mouse recombinant (rmlL-22-PEG)

Catalog No: 97317
Lot No: XXXXX
Source: *E. coli*
Synonyms: IL-TIF, TIFa, IL-10-related T-cell-derived-inducible factor, IL-22, ILTIF, IL-D110, zcyto18, MGC79382, MGC79384, TIFIL-23

Background

Interleukin-22 (IL-22), also known as IL-10-related T cell-derived inducible factor (IL-TIF) was initially identified as a gene induced by IL-9 in mouse T cells and mast cells. Mouse IL-22 cDNA encodes a 179 amino acid residue protein with a putative 33 amino acids signal peptide that is cleaved to generate a 147 aa mature protein that shares approximately 79% and 22% aa sequence identity with human IL-22 and IL-10, respectively. IL-22 has been shown to activate STAT-1 and STAT-3 in several hepatoma cell lines and upregulate the production of acute phase proteins. IL-22 is produced by normal mouse T cells upon Con A activation. Mouse IL-22 expression is also induced in various organs upon lipopolysaccharide injection, suggesting that IL-22 may be involved in inflammatory responses. The functional IL-22 receptor complex consists of two receptor subunits, IL-22R (previously an orphan receptor named CRF2-9) and IL-10RB (previously known as CRF2-4), belonging to the class II cytokine recep

Description

Pegylated Interleukin-22 mouse recombinant produced in *E. coli* is a single, non-glycosylated homodimeric polypeptide chain containing 147 amino acids and an additional Ala amino acid at N-terminus having a molecular mass of 36 kDa as determined by mass spectrometry. However due to enlarged hydrodynamic volume it runs on the SDS-PAGE as a 50 kDa protein and in gel-filtration on Superdex 200 as over 200 kDa protein. Murine IL-22 is mono-pegylated (with 20 kDa PEG) and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a concentrated solution at 0.65 mg/ml containing 0.003 mM NaHCO₃.

Solubility

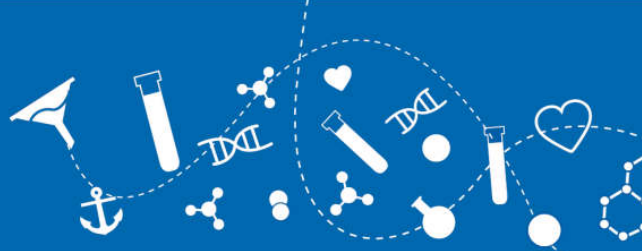
It is recommended to reconstitute the lyophilized pegylated Interleukin-22 in sterile 0.4% NaHCO₃ adjusted to pH 8-9 not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized pegylated IL-22, although stable at room temperature for several days, should be stored desiccated below -20°C. Upon reconstitution at 0.1 mg/ml pegylated mouse IL-22 and up to 2 mg/ml, filter and sterilized, the protein can be stored at 4°C for several weeks making it suitable for long term infusion studies using osmotic pumps. At lower concentration addition of a carrier protein (0.1% HSA or BSA) is suggested. Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by (a) Analysis by Gel-Filtration. (b) Analysis by SDS-PAGE.



Activity

The ED50 as determined by STAT3 phosphorylation assay in HepG cells. The activity in vitro was found to be ~10% compared to the non-pegylated mouse IL-22.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.