Mouse IL 22 Recombinant Protein

RPPB0641

Product Information

Product SKU:
RPPB0641

Accession:
Q9JJY9

Host:
Escherichia Coli.

Protein Information

Protein description:
Pegylated Interleukin-22 Mouse Recombinant produced in E.Coli is a single, non-glycosylated homodimeric polypeptide chain containing 147 amino acids and an aditional Ala amino acid at N-terminus having a molecular mass of 36 kDa as determioned by mass spectometry. However due to enlarged hydrodymanic volume it runs on the SDS-PAGE as a 50 kDa protein and in gel-filtration on Superdex 200 as over 200 kDa protein. The Murine IL-22 is Mono-pegylated (with 20 kDa PEG) purified by proprietary chromatographic techniques.

Appearance:
Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:
IL-TIF, TIFa, IL-10-related T-cell-derived-inducible factor, IL-22, ILTIF, IL-D110, zcyto18, MGC79382, MGC79384, TIFIL-23.

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

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

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

Stability:
Lyophilized pegylated murine IL22 although stable at room temperature for several days, should be stored desiccated below -20‧C. Upon reconstitution at 0.1mg/ml pegylated mouse IL22 and up to 2mg/ml, filter and sterilized, the protein can be stored at 4 degrees Celsius 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.

Biological 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 IL22.