

Recombinant Human Interleukin-22 (rh IL-22)

Synonyms: IL-TIF, TIFa, IL-10-related T-cell-derived-inducible factor, LTIF, IL-D110, zcyto18, TIFIL-23.

Introduction: IL-22 is a member of the IL-10 family of regulatory cytokines. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. Produced by T lymphocytes IL-22 inhibits IL-4 production by Th2 cells and induces acute phase reactants in the liver and pancreas. IL-22 signals through a receptor system consisting of IL-10R-beta/CRF2-4 and IL-22R, both of which are members of the class II cytokine-receptor family.

Description: Recombinant human IL-22 produced in E.Coli is a single, non-glycosylated, homodimeric polypeptide chain containing 2x146 amino acids and having a molecular mass of 33.6 kDa. Rh IL-22 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.22 µm filtered solution in 25 mM Sodiumphosphate, 200 mM NaCl, pH 6.0. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh IL-22 in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh IL-22 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rh IL-22 should be stored at 4°C between 2-7days, for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Endotoxicity: The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

Amino acid sequence: MAPISSHCRLLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLIGEKLFHG
VSMSERCYLMKQVLNFTLEEVLFPQSDRFQPYMQEVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKDTV
KKLGESGEIKAIGELDLLFM SLRNACI

Biological Activity: The biological activity was determined by the ability to activate STAT following receptor ligand interaction.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11340222
<i>medium</i>	10 µg	Cat.N°	11340223
<i>large</i>	50 µg	Cat.N°	11340225
<i>x-large</i>	250 µg	Cat.N°	11340227
<i>xx-large</i>	1000 µg	Cat.N°	11340228

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