

IL-22 Protein, Human, Recombinant (E. coli)

General Information

Synonyms:	IL-D110;ILTIF;zycto18;IL-TIF;interleukin 22;IL-22;TIFIL-23;TIFa
Protein Construction:	Ala34-Ile179 Expressed with an N-terminal Met
Species:	Human
Expression Host:	E. coli
Accession:	Q9GZX6
Molecular Weight:	16.9 kDa (Reducing conditions)

QC Testing

Biological Activity:	Measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells). The ED50 for this effect is less than 1.0 ng/ml.
Purity:	> 98% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-22(IL-22) belongs to a group of cytokines called the IL-10 family or IL-10 superfamily (including IL-19, IL-20, IL-24, and IL-26) which are a class of potent mediators of cellular inflammatory responses. It shares use of IL-10R2 in cell signaling with other members of this family, such as IL-10, IL-26, IL-28A/B and IL-29. IL-22 is produced by activated DC and T cells and initiates innate immune responses against bacterial pathogens in epithelial cells such as those in the lung and gut. IL-22 along with IL-17 is produced by splenic LTi-like cells and Th17 cells and likely plays a role in the coordinated response of both adaptive and innate immune systems.IL-22 signals through a receptor system consisting of IL-10R- β /CRF2-4 and IL-22R, both of which are members of the

class II cytokine-receptor family.

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