Recombinant Human Interleukin-22 (IL-22)

Certificate of Analysis and Data Sheet

Source:	Catalog No.
E.Coli	CTK-328

Description :

Recombinant Human IL-22 produced in E.Coli is a non-disulfide-linked homodimeric , non-glycosylated polypeptide chain containing 2 x 146 amino acids and having a total molecular mass of 33,607 Dalton.

rHuIL-22 is purified by proprietary chromatographic techniques.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Each mg contains 42% mannitol and 31% HSA.

Solubility:

It is recommended to reconstitute the lyophilized rHuIL-22 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

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

Purity:

Greater than 97.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.

Amino-Acid Sequence :

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Pro-Ile-Ser.

Dimers and aggregates:

Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

Biological Activity:

This rHuIL-22 is fully biologically active when compared to standard. The Biological Acitivity was determined by the ability to activiate STAT following receptor ligand interaction.

Endotoxin:

Less than 0.1 ng/μg (IEU/μg) of Recombinant Interleukin-22.

Protein content:

Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm.
2. Analysis by RP-HPLC, using a calibrated solution of Recombinant Interleukin-22 as a Reference Standard.

Usage:

This material is offered for research, laboratory or further evaluation purposes.