

Overview

Synonyms	IL-TIF,IL-22,Interleukin-22
Description	<p>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.</p> <p>Recombinant human Interleukin-22 (IL-22) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 147 amino acids. A fully biologically active molecule, rhIL-22 has a molecular mass of 16.9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	Q9GZX6
Species	Human
Source	<i>E. coli</i>
Biological Activity	Measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells). The ED ₅₀ for this effect is less than 1 ng/ml.
Sequence	<p>MAPISSHCRL DKSNFQQPYI TNRTFMLAKE ASLADNNTDV RLIGEKLFHG VMSERCYLM KQVLNFTLEE VLFPPQSDRFQ PYMQEVVPPFL ARLSNRLSTC HIEGDDLHIQ RNVQKLKDTV KKLGESGEIK AIGELDLLFM SLRNACI</p>

Properties

Measured Molecular Weight	16.9 kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Interleukin-22 (IL-22) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human Interleukin-22 (IL-22) should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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