

Overview

Synonyms	IL-TIF, IL-22, Interleukin-22
Description	<p>Interleukin-22 (IL-22) is a member of a group of cytokines called the IL-10 family which include IL-10, IL-19, IL-20, IL-24, and IL-26. IL-22 shares use of the IL-10R2 in cell signaling with other members of this family. 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. IL-22 is produced by activated DCs and T cells and initiates an innate immune response against bacterial pathogens especially in epithelial cells such as those in the respiratory tract and gut. IL-22 along with IL-17 is rapidly produced by splenic LTI-like cells and can also be produced by Th17 cells, which plays a likely role in the coordinated response of both adaptive and innate immune systems.</p> <p>Recombinant Mouse IL-22 produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 147 amino acids. A fully biologically active molecule, rIL-22 has a molecular mass of 16.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	Q9JJY9
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 0.5 ng/ml. Measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells).
Sequence	Leu ³⁴ -Val ¹⁷⁹ (Accession #: Q9JJY9), expressed with an N-terminal Met

Properties

Measured Molecular Weight	16.8 kDa, observed by reducing SDS-PAGE
Purity	> 98% as analyzed by SDS-PAGE & HPLC.
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 Mouse IL-22 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse IL-22 should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

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