

32-1495: rIL 22 Recombinant Protein

Alternative Name : IL-TIF, TIFa, IL-10-related T-cell-derived-inducible factor, IL-22, ILTIF, IL-D110, zcyto18, MGC79382, MGC79384, TIFIL-23.

Description

Source : Escherichia Coli. IL-22 Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 16.6kDa. The IL22 is purified by proprietary chromatographic techniques. 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.

Product Info

Amount : 10 µg
Purification : Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content : Lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4.
Storage condition : Lyophilized Interleukin-22 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL22 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Amino Acid : LPINSQCKLE AANFQQPYIV NRTFMLAKEA SLADNNTDVR LIGEELFRGV KAKDQCYLEMK QVLNFTLEDV LLPQSDRFQP YMQEVVPFLT KLSIHLSPCH ISGDDQNIQK NVRQLKETVQ KLGESGEIKA IGELDLLFMS LRNACV.

Application Note

It is recommended to reconstitute the lyophilized Interleukin -22 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The biological activity is measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells). The expected ED₅₀ for this effect is 0.15-0.75ng/ml.

