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32-6469: IL22 Human, Sf9

Application : Functional Assay

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: Sf9, Baculovirus cells.
Sterile filtered colorless solution.
Interleukin-22 (IL-22), also known as IL-10-related T cell-derived inducible factor (IL-TIF) was initially identified as a gene induced by IL-9 in mouse T cells and mast cells. Mouse IL-22 cDNA encodes a 179 amino acid residue protein with a putative 33 amino acids signal peptide that is cleaved to generate a 147 aa mature protein that shares approximately 79% and 22% aa sequence identity with human IL-22 and IL-10, respectively. IL-22 has been shown to activate STAT-1 and STAT-3 in several hepatoma cell lines and upregulate the production of acute phase proteins. IL-22 is produced by normal mouse T cells upon Con A activation. Mouse IL-22 expression is also induced in various organs upon lipopolysaccharide injection, suggesting that IL-22 may be involved in inflammatory responses. The functional IL-22 receptor complex consists of two receptor subunits, IL-22R (previously an orphan receptor named CRF2-9) and IL-10R (previously known as CRF2-4), belonging to the class II cytokine receptor family.
IL22 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (34-179 a.a.) Â fused to a 9 aa His Tag at C-terminus containing a total of 155 amino acids and having a molecular mass of 17.8kDa. IL22 shows multiple bands between 18-28kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

Product Info

Amount :	1 µg / 5 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	IL22 protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) & 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	ADPAPISSHC RLDKSNFQQP YITNRTFMLA KEASLADNNT DVRLIGEKLF HGVSMSERCY LMKQVLNFTL EEVLFPQSDR FQPYMQEVVP FLARLSNRLS TCHIEGDDLH IQRNVQKLKD TVKKLGESGE IKAIGELDLL FMSLRNACIH HHHHH.

Application Note

The ED50 as determined by its ability to induce IL-10 secretionÃÂ using COLO 205 human colorectal adenocarcinoma cell isÃÂ <= 1.2 ng/ml.

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