

Datasheet for ABIN1096930

IL-22 Protein

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Overview

Quantity:	50 µg
Target:	IL-22 (IL22)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Mouse Interleukin-22/IL-22 (E. coli)
Sequence:	MLPVNTRCKL EVSNFQQPYI VNRTFMLAKE ASLADNNTDV RLIGEKLFRG VSAKDQCYLM KQVLNFTLED VLLPQSDRFQ PYMQEVVPFL TKLSNQLSSC HISGDDQNIQ KNVRRCLKETV KKLGESGEIK AIGELDLLFM SLRNACV
Characteristics:	Recombinant Mouse Interleukin-22/IL-22 produced in E. coli is a single non-glycosylated polypeptide chain containing 147 amino acids with a molecular mass of 16.7 kDa.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	IL-22 (IL22)
Alternative Name:	il-22 (IL22 Products)
Background:	Interleukin-22 (IL-22) was initially identified as a gene induced by IL-9 in mouse T cells and mast

Target Details

cells. Mouse IL-22 cDNA encodes a 179 amino acid residue protein with a putative 33 amino acid signal peptide that is cleaved to generate a 147 amino acid mature protein that shares approximately 79% and 22% sequence identity with human IL22 and IL10, respectively. IL22 has been shown to activate STAT-1 and STAT-3 in several hepatoma cell lines and up-regulate 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-10Rbeta (previously known as CRF2-4), belonging to the class II cytokine receptor family.

Alternative Names: Interleukin-22, IL-22, IL-10-Related T-Cell-Derived-Inducible Factor, IL-TIF, IL-TIF Alpha, Interleukin-22a, IL-22a, Il22, Il22a, Itif, Itifa

Molecular Weight: 16.7 kDa

UniProt: [Q9JJY9](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 µg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.0.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months