



Datasheet for ABIN988063

IL-22 Protein



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1 Publication

Overview

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

Product Details

Purity:	> 97.0 %, as determined by the following methods: (a) RP-HPLC analysis (b) Reducing and non-reducing SDS-PAGE silver stained gel analysis
Endotoxin Level:	Level The endotoxin level of Recombinant Mouse Interleukin-22 (IL-22) is below 0.1 ng/µg (1 IEU/µg), as determined by LAL test

Target Details

Target:	IL-22 (IL22)
Alternative Name:	Interleukin-22 (IL-22) (IL22 Products)
Background:	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 Interleukin-22 (IL-22) cDNA encodes a 179 amino acid (aa) residue protein with a putative 33 aa 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. Interleukin-22 (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. Interleukin-22 (IL-22) is produced by normal mouse T cells

Target Details

upon Con activation. Mouse Interleukin-22 (IL-22) expression is also induced in various organs upon lipopolysaccharide injection, suggesting that Interleukin-22 (IL-22) may be involved in inflammatory responses. The functional Interleukin-22 (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. Mouse Interleukin-22 (IL-22), produced in E. coli, is a single, non-glycosylated polypeptide chain containing 147 amino acids and having a molecular mass of 16,700 Da. Synonym: IL-22 (Mouse), rmIL-22. Formulation: The protein was lyophilized after extensive dialysis against 20mM PB, pH 6.5, 300mM NaCl buffer.

Molecular Weight: 16,700 Da

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is recommended that reconstitute the lyophilized Mouse Interleukin-22 (IL-22) be reconstituted in sterile 18 Mohm-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Specificity Recombinant Mouse Interleukin-22 (IL-22) is fully biologically active relative to standard. The ED₅₀, as determined by its ability to induce IL-10 secretion in Colo205 cells, is less than 0.5 ng/ml, corresponding to a specific activity of 2.0×10⁶ IU/mg.

Storage: -20 °C

Publications

Product cited in: Thuy, Thorsén: "Glycosylation profiling of therapeutic antibodies in serum samples using a microfluidic CD platform and MALDI-MS." in: **Journal of the American Society for Mass Spectrometry**, Vol. 24, Issue 7, pp. 1053-63, (2013) ([PubMed](#)).

Fritz, Radziwill: "CNK1 promotes invasion of cancer cells through NF-kappaB-dependent signaling." in: **Molecular cancer research : MCR**, Vol. 8, Issue 3, pp. 395-406, (2010) ([PubMed](#)).