10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IL-TIF, TIF

Catalog # PVGS1014

Product Information

Species	Mouse
Purity	Greater than 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	Less than 0.1 ng/ μg (1 EU/ μg) of recombinant mouse Interleukin-22 (IL-22) as determined by LAL test.
Formulation	The protein was lyophilized after extensive dialysis against 20mM PB, pH 6.5, 300mM NaCl buffer.
Reconstitution	It is recommended that reconstitute the lyophilized recombinant mouse Interleukin-22 (IL-22) be reconstituted in sterile 18 MΩ-cm H_2O not less than 100 μg/ml, which can then be further diluted to other aqueous solutions.

Additional Information

Target 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. Mouse Interleukin-22 (IL-22) is produced by normal mouse T cells upon Con activation. 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. 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-10Rβ (previously known as CRF2-4), belonging to the class II cytokine receptor family. Recombinant 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.