

Recombinant Mouse IL-22

Catalog # FL063

Product Specifications

Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Purity	> 97% by SDS-PAGE or HPLC.
Endotoxin	< 0.01 EU/μg of rMuIL-22 protein as determined by LAL method.
Expression System	Expressed in E. coli.
Species	Mouse
Tag	Tag free.
Activity	Fully biologically active when compared to standard. The ED50 as determined by inducing IL-10 secretion of human COLO 205 cells is less than 0.2 ng/ml, corresponding to a specific activity of $\geq 5.0 \times 10^6$ IU/mg.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.
Accession #	Q9JJY9 Leu34-Vall79
Amino acid sequence	LPVNTTRCKLEVSNFQQPYIVNRTFMLAKEASLADNNTDVRLLIGEKLFRGVSAKDQCYLKQVLNFTLEDVLLPQSDRFQPYMQEVPFLTKLSNQLSSCHISGDDQNIQKNVRRRLKETVKKLGESGEIKAIGELDLLFMSLRNACV
Molecular weight	Approximately 16.6 kDa, a single non-glycosylated polypeptide chain containing 146 amino acids.
Synonyms	IL-TIF, IL-TIF alpha, IL-22a
Stability & Storage	Shipped on wet ice. For long term storage, the product should be stored $\leq -20^\circ\text{C}$. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
Precautions	Recombinant Mouse IL-22 is for research use only and not for use in diagnostic or therapeutic procedures.

Background

IL-22 is belonging to IL-10 family of regulatory cytokines which includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. Produced by T lymphocytes and dendritic cells, IL-10 contributes to the inflammatory response in vivo. IL-22 signals through CRF2-4 and IL-22. It along with IL-17 is rapidly produced by splenic LT α i-like cells and can be also produced by Th17 cells. IL-22 likely plays a role in the coordinated response of both adaptive and innate immune systems. Mouse IL-22 has approximately 81% and 92% amino acid sequence identity with human and rat IL-22. Recombinant Mouse IL-22 is a 16.6kDa globular protein containing 146 amino acid.

