DATASHEET

Recombinant Murine Interleukin-22

CAT. NO. ARP6696

KEY FEATURES

Target	Interleukin-22	Source/Expression System	E.coli
Reactivity	Murine	Aapplication	SDS-PAGE
Abbreviation	rMuIL-22	Synonyms	IL-TIF, IL-TIF alpha, IL-22a

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 LTi-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. Murine IL-22 has approximately 81% and 92% amino acid sequence identity with human and rat IL-22. Recombinant Murine IL-22 is a 16.6kDa globular protein containing 146 amino acid.

PRODUCT OVERVIEW

Molecular Weight	Approximately 16.6 kDa, a single non-glycosylated polypeptide chain containing 146 amino acids.
Accession	Q9JJY9 Leu34-Val179
A.A. Sequence	LPVNTRCKLEVSNFQQPYIVNRTFMLAKEASLADNNTDVRLIGEKLFRGVSAKDQCYLMKQVLNFTLEDVLLPQSDR FQPYMQEVVPFLTKLSNQLSSCHISGDDQNIQKNVRRLKETVKKLGESGEIKAIGELDLLFMSLRNACV
Purity	＞97% by SDS-PAGE or HPLC.
Biological 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 ≥5.0×10^6 IU/mg.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.01 EU/μg of rMuIL-22 protein as determined by LAL method.
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 ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

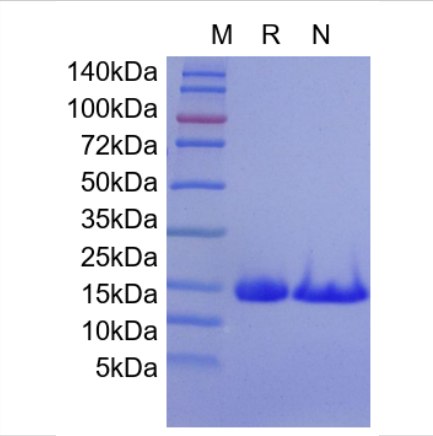
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STORAGE

For long term storage, the product should be stored ≤ -20°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.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.