DATASHEET

Recombinant Human Interferon-gamma

CAT. NO. ARP6612

KEY FEATURES

Target	Interferon-gamma	Source/Expression System	E.coli
Reactivity	Human	Aapplication	SDS-PAGE
Abbreviation	rHuIFN-γ	Synonyms	Immune Interferon, type II interferon, T cell interferon, MAF

BACKGROUND

Interferon-gamma (IFN-γ) , also known as Type II interferon or immune interferon, is a dimerized soluble cytokine that is critical for innate and adaptive immunity against viral, some bacterial and protozoal infections. It is produced primarily by CD4 and CD8 T lymphocytes as well as natural killer (NK) and natural killer T (NKT) cells. The primary role for IFN-γ is the activation of macrophages to increase phagocytosis, tumoricidal properties, and intracellular killing of pathogens. IFN-γ also increases expression of MHC antigens by macrophages and this facilitates antigen presentation to T cells. The recombinant Interferon-gamma s a 16.9kDa protein consisting of 144 amino acid.

PRODUCT OVERVIEW

Molecular Weight	Approximately 16.9 kDa, a single non-glycosylated polypeptide chain containing 144 amino acids.
Accession	P01579 Gln2-Gln166 with an N-terminal Met
A.A. Sequence	MQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQSQIVSFYFKLFKNFKDDQSIQKSVETIKED MNVKFFNSNKKKRDDFEKLTNYSVTDLNVQRKAIHELIQVMAELSPAAKTGKRKRSQMLFRGRRASQ
Purity	＞98% by SDS-PAGE or HPLC.
Biological Activity	Fully biologically active when compared to standard. The ED50 as measured in anti-viral assays using human HeLa cells infected with encephalomyocarditis (EMC) virus is 0.15~0.80 ng/ml.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, with 5% (v/v) Trehalose, pH 7.4.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.01 EU/μg of rHuIFN-γ 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.

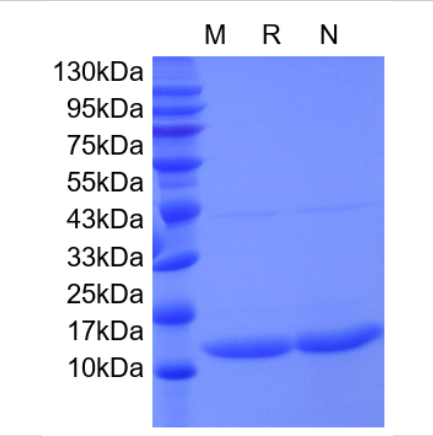
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STORAGE

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.