

Recombinant murine IFN-g

Catalog No: #72606

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant murine IFN-g
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 96 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Ms
Target Name	rm IFN-g
Accession No.	accession:P01580 GeneID:15978
Uniprot	P01580
GeneID	15978;
Calculated MW	Approximately 15.5 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	HGTVIESLES LNNYFNSSGI DVEEKSLFLD IWRNWQKDGD MKILQSQIIS FYLRLFEVLK DNQAISNNIS VIESHLITTF FSNSKAKKDA FMSIAKFEVN NPQVQRQAFN ELIRVVHQLL PESSLRKRKR SRC
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4, containing 5 % trehalose.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

Background

Interferon-gamma (IFN-γ), also known as Type II interferon or immune interferon, is a cytokine produced primarily by T-lymphocytes and natural killer cells. The protein shares no significant homology with IFN-β or the various IFN-α family proteins. Mature IFN-γ exists as noncovalently-linked homodimers. It shares high sequence identity with rat IFN-γ (86 %). IFN-γ was originally characterized based on its antiviral activities. The protein also exerts antiproliferative, immunoregulatory and proinflammatory activities and is thus important in host defense mechanisms. IFN-γ induces the production of cytokines, upregulates the expression of class I and II MHC antigens, Fc receptor and leukocyte adhesion molecules. It modulates macrophage effector functions, influences isotype switching and potentiates the secretion of immunoglobulins by B cells. Additionally, IFN-γ augments TH1 cell expansion and may be required for TH1 cell differentiation.

References

1. Pennino D, Bhavsar PK, Effner R, et al. 2012. J Allergy Clin Immunol,
2. Hibi M, Hachimura S, Ise W, et al. 2003. Cytotechnology, 43: 49-55.
3. Wang H, Ruan Z, Wang Y, et al. 2008. Mol Immunol, 45: 1548-56.
4. Kopinski P, Przybylski G, Jarzemska A, et al. 2007. Pol Merkur Lekarski, 23: 15-21.

Note: This product is for in vitro research use only