Recombinant human IFN-omega protein

Catalog Number: ATGP4133

PRODUCT INFORMATION

Expression system
HEK293

Domain
22-195aa

UniProt No.
P05000

NCBI Accession No.
NP_002168.1

Alternative Names
interferon omega-1, interferon alpha-II-1, interferon omega 1, IFNW1, IFN-omega 1

PRODUCT SPECIFICATION

Molecular Weight
20.9kDa (180aa)

Concentration
1mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured in a cytotoxicity assay using TF-1 human erythroleukemic cells. The ED50 range ≤0.07 ng/ml.

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
IFN-omega, also known as interferon-omega, is a member of a family of proteins with antiviral, growth inhibitory

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and immunomodulatory activity. Type I IFNs consist of IFN alpha, beta, tau, and omega and bind to the type I IFN receptor, whereas IFN-gamma is the only type II IFN and is specific for the type II IFN receptor. IFN-omega is produced primarily in leukocytes in response to viral infection, and it has biological activities. Also, it was reported that IFN-omega could inhibit the growth of human tumors in vivo. Recombinant human IFN-omega, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

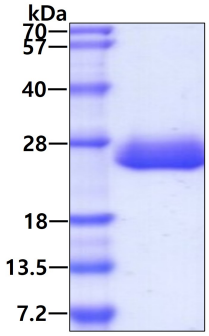
LGCDLPQNHG LLSRNTLVLL HQMRRISPFL CLKDRRDFRF PQEMVKGSQL QKAHVMSVLH EMLQQIFSLF HTERSSAAWN MTLLDQLHTG LHQQLQHLET CLLQVVGEGE SAGAISSPAL TLRRYFQGIR VYLKEKKYSD CAWEVVRMEI MKSLFLSTNM QERLRSKDRD LGSS<HHHHHH>

General References

Seo Y., et al, (2011) Pharmacology. 87:224-231.
Adolf G.R., et al, (1991) . Biochim. Biophys. Acta.1089:167-174.

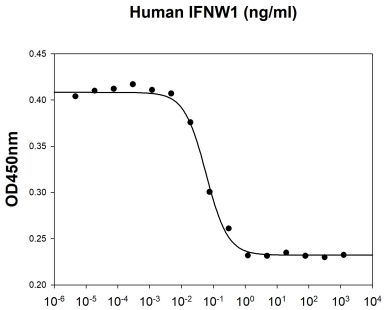
DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity



Human Interferon-omega stimulates cytotoxicity of the TF-1 human erythroleukemic cells. The ED50 range ≤0.07 ng/ml.