

## Human recombinant IFN omega (interferon omega) protein, AF

Catalog Number: PROTP05000-3

### Overview

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| Product Name | Human recombinant IFN omega (interferon omega) protein, AF                                                                                                                                                                                                                                                                    |
| Description  | Interferon Omega (IFN-omega) is a 20.12 kDa member of type I IFN family with 173 amino acid residues. IL-28B is expressed by epithelial tissues. IFN-omega with antiviral, antitumor activity and regulating the innate immune response. Able to activate P13K/Akt signaling pathway via binding its receptor IFNAR in cells. |
| Size         | 20ug,100ug,500ug                                                                                                                                                                                                                                                                                                              |
| Tag          | His Tag (C-term)                                                                                                                                                                                                                                                                                                              |
| Form         | Lyophilized                                                                                                                                                                                                                                                                                                                   |
| Source       | Escherichia coli                                                                                                                                                                                                                                                                                                              |
| Formulation  | The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.                                                                                                                                                              |

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>95% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 20.93 kDa. The protein migrates as 20 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to induce cytotoxicity in TF-1 cells. The ED<sub>50</sub> for this effect is 5 x10<sup>2</sup> IU/ mg.

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### Amino Acid Sequence

MCDLPQNHGLLSRNTLVLLHQMRRISPFLCLKDRRDFRFPQEMVKGSQKQKAHVMSVLHEMLQQIFSLFHTERSAAWNMTLLDQLHTGLHQQQLQHL  
ETCLLQVVGEGESAGAISSPALTLLRRYFQGIRVYLKEKKYSDCAWEVVRMEIMKSLFLSTNMQERLRSKDRDLGSS with polyhistidine tag at the C-terminus.

### Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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