BOSTER BIOLOGICAL TECHNOLOGY
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Human recombinant IFN beta 1a (Interferon beta 1a) protein, AF

Catalog Number: PROTP01574-4

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Overview

Product Name	Human recombinant IFN beta 1a (Interferon beta 1a) protein, AF
Description	Interferon-Beta 1a (IFN-beta 1a) is a leukocyte interferon, which is a variant of Interferon-beta. IFN-beta 1a is a 19 kDa protein containing 166 amino acid residues. It could bind the interferon receptors that activates the signal transduction of immune responses through the Jak/STAT pathway in leukocytes and lymphoblastoid cells.
Size	5ug,20ug,100ug
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 8.0. 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

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 20.84 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce apoptosis in HeLa cells. The ED_{50} for this effect is <15 ng/mL. Measure by its ability to induce cytotoxicity in TF-1 cells. The ED_{50} for this effect is <0.1 ng/mL. The specific activity of recombinant human IFN beta 1a is approximately >1 x10^7 IU/ mg.

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Endotoxin

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

Amino Acid Sequence

MSYNLLGFLQRSSNFQCQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYEMLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLK TVLEEKLEKEDFTRGKLMSSLHLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRN 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_2O 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.

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Usage

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