

Human recombinant IL-28B (Interleukin-28B) protein, AF

Catalog Number: PROTQ8IZI9-3

Overview

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| Product Name | Human recombinant IL-28B (Interleukin-28B) protein, AF |
| Description | Interleukin-28B (IL-28B, now known as Interferon Lambda 3, IFN-lambda3) is a 19.77 kDa member of type III IFN family with 176 amino acid residues. IL-28B is expressed by epithelial tissues. Cytokine with antiviral, antitumor and immunomodulatory activities. Able to activate JAK/STAT signaling pathway via binding its receptor IFNLR1 in epithelial 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

>95% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 25.57 kDa. The protein migrates as 21 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to protect HepG2 cells infected with encephalomyocarditis (EMC) virus. The ED₅₀ for this effect is <5 ng/mL.

Endotoxin

<0.01 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MVPVARLRGALPDARGCHIAQFKSLSPQELQAFKRAKDALEESLLKDKCRSRLFPRTWDLRQLQVRERPVALEAELALTLKVLEATADTDPALGDVLD
QPLHTLHHILSQLRACIQPQPTAGPRTRGRLHHWLHRLQEAPKKESPGCLEASVTFNLFRLLTRDLNLCVASGDLCV 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 H₂O 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

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