

IL28B Active Protein | IFNL3 active protein

IL28B Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257997

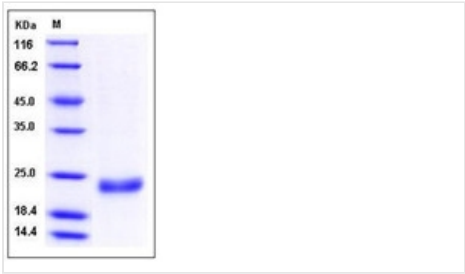
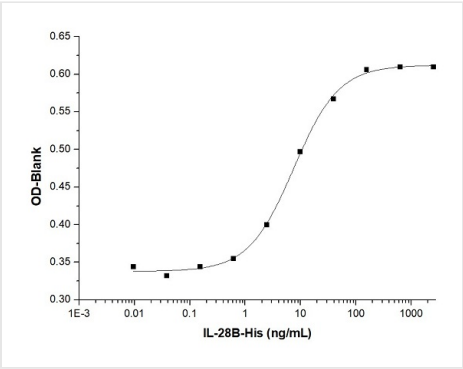
HOST
HEK293 Cells

PRODUCT SYNONYMS

IL28B; IL28B Protein; Human; Recombinant (His Tag); Human IFNL3/IL28B/Interleukin-28B Protein (His Tag); IL-28B Protein; IL28C Protein; interferon; lambda 3; IFNL3 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>96% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, 500mM NaCl, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Val19 6
Species	Human
Activity	Measured in antiviral assays using WISH cells infected with vesicular stomatitis virus. The ED50 for this effect is typically 4-16ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Val 22
Tag	C-His
Protein Construction	A DNA sequence encoding the human IL28B (NP_742151.2)(Met 1-Val 196) was expressed, with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured in antiviral assays using WISH cells infected with vesicular stomatitis virus. The ED50 for this effect is typically 4-16 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for IFNL3 active protein	Background: Interleukin-28B (IL-28B) also known as Interferon lambda-3 and IFN-lambda-3, belongs to the type III interferon family of cytokines and are highly similar to IL-29. IL-28B belongs to the newly described interferon lambda (IFNlambda) family of cytokines. IL-28B is a cytokine with immunomodulatory activity. It functions in Up-regulating MHC class I antigen expression. IL-28B displays potent antiviral activity and antitumor activity. This cytokine serves as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IL28RA. The ligand/receptor complex seems to signal through the Jak-STAT pathway. IL-28B, like IL-12, is capable of robustly enhancing adaptive immunity. Moreover, we describe for the first time how IL-28B reduces regulatory T-cell populations during DNA vaccination, whereas IL-12 increases this cellular subset. We also show that IL-28B, unlike IL-12, can increase the percentage of splenic CD8+ T cells in vaccinated animals and that these cells are more granular and have higher antigen-specific cytolytic degranulation compared with cells taken from animals that received IL-12 as an adjuvant.
References	Ge D, et al.. (2009) Genetic variation in IL28B predicts hepatitis C treatment-induced viral clearance. Nature. 461(7262): 399-401. Morrow MP, et al.. (2009) Comparative ability of IL-12 and IL-28B to regulate Treg populations and enhance adaptive cellular immunity. Blood. 113(23): 5868-77. Sheppard P, et al.. (2003) IL-28, IL-29 and their class II cytokine receptor IL-28R. Nat Immunol. 4(1): 63-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	28144901
NCBI GeneID	282617
NCBI Accession #	NP_742151.2
NCBI GenBank Nucleotide #	NM_172139.2
UniProt Accession #	Q8IZI9; Q6VN56; Q7Z4J3; Q8IWL6; A2BDE1
Molecular Weight	21,706 Da
NCBI Official Full Name	interferon lambda-3
NCBI Official Synonym Full Names	interferon, lambda 3
NCBI Official Symbol	IFNL3
NCBI Official Synonym Symbols	IL28B; IL28C; IL-28B
NCBI Protein Information	interferon lambda-3; IL-28C; IFN-lambda-3; IFN-lambda-4; interleukin 28C; interleukin-28B; interleukin-28C; cytokine Zcyto22; interferon lambda-4; interferon, lambda 4; interleukin 28B (interferon, lambda 3)
UniProt Protein Name	Interferon lambda-3
UniProt Gene Name	IFNL3

UniProt Synonym Gene Names	IL28B; IL28C; ZCYTO22; IFN-lambda-3; IL-28B; IL-28C
UniProt Entry Name	IFNL3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-ifnl3-active-protein/il28b/257997>