IL-28B Mouse Active Protein

PRODUCT OVERVIEW

Product Name	IL-28B, Active Protein
Full Product Name	Mouse IL-28B
Product Gene Name	IL-28B active protein
Product Synonym Names	Interferon lambda-3; IFN-lambda-3; Interleukin-28B; IL-28B; Ifnl3; Il28; Il28b
Sequence	DPVPRATRLP VEAKDCHIAQ FKSLSPKELQ AFKKAKGAIE KRLLEK DMRC SSHLISRAWD LKQLQVQERP KALQAEVALT LKVWENINDS A LTTILGQPL HTLSHIHSQL QTCTQLQATA EPKPPSRRLS RWLHRLQ EAQ SKETPGCLED SVTSNLFQLL LRDLKCVASG DQCV
Host	E Coli
Form/Format	Lyophilized
Purity/Purification	> 97% by SDS-PAGE & HPLC analyses
Preparation and Storage	Although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C.
Molecular Weight	21,664 Da
3D Structure	ModBase 3D Structure for Q8CGK6
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Species	Mouse
Biological Activity	The ED50 as determined by an anti-viral assay using human HepG2 cells infected with encephalomyocarditis is less than 30 ng/ml, corresponding to a specific activity of > 3.3 × 104 IU/mg.
Reconstitution	It is recommended to reconstitute the lyophilized IL-28B in sterile water not less than 100ug/ml, which can then be further diluted to other aqueous solutions.
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for IL-28B active protein	IL-28B is a cytokine remotely related to type I interferons and the IL-10 family. Interleukin-28B, interleukin 28A (IL28A), and interleukin 29 (IL29) are 3 closely related cytokine genes which form a cytokine gene cluster on a chromosomal region mapped to 19q13. Expression of the cytokines encoded by these 3 genes can be induced by viral infection. All 3 cytokines interact with a heterodimeric class II cytokine receptor which consists of interleukin 10 receptor, beta (IL10RB) and interleukin 28 receptor, alpha (IL28RA).
Other Notes	Small volumes of IL-28B active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL-28B purchase	MBS692522 is an active protein targeting IL-28B. Also known as Mouse IL-28B. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-28B. It may not necessarily be applicable to this product.

NCBI GI #	28893579
NCBI GeneID	338374
NCBI Accession #	NP_796370.1
UniProt Primary Accession #	Q8CGK6

UniProt Secondary Accession #	Q4VK73
UniProt Related Accession #	Q8CGK6
GenBank Nucleotide #	NM_177396.1
NCBI Official Full Name	interferon lambda-3
NCBI Official Synonym Full Names	interferon lambda 3
NCBI Official Symbol	Ifnl3
NCBI Official Synonym Symbols	Il28; IFL-1; Il28b; IL-28B; INF-alpha; INF-lambda
UniProt Protein Name	Interferon lambda-3
UniProt Synonym Protein Names	Interleukin-28B; IL-28B
Protein Family	Interferon
UniProt Gene Name	Ifnl3
UniProt Synonym Gene Names	Il28; Il28b; IFN-lambda-3; IL-28B
NCBI Protein Information	interferon lambda-3
UniProt Comments for IL-28B	Cytokine with antiviral, antitumour and immunomodulatory activities. Plays a critical role in the antiviral host defense, predominantly in the epithelial tissues. Acts as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1, and receptor engagement leads to the activation of the JAK/STAT signaling pathway resulting in the expression of IFN-stimulated genes (ISG), which mediate the antiviral state. Has a restricted receptor distribution and therefore restricted targets: is primarily active in epithelial cells and this cell type-selective action is because of the epithelial cell-specific expression of its receptor IFNLR1. Seems not to be essential for early virus-activated host defense in vaginal infection, but plays an important role in Toll-like receptor (TLR)-induced antiviral defense. Plays a significant role in the antiviral immune defense in the intestinal epithelium. Exerts an immunomodulatory effect by up-regulating MHC class I antigen expression.
Research Articles on IL-28B	**1.** results suggest that IL-28B induces more mature NK cells to defend against viruses, in addition to its direct antiviral activity
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