9051 Mira Mesa Blvd, #910094
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IL 28A Mouse

Interleukin-28A Mouse Recombinant
CYK0309

Product Overview

Name	IL 28A Mouse
Description	
Interleukin-28A Mouse Recombinant	
Accession (Primary)	Q4VK74
Synonyms	
IFN-lambda-2, Interleukin-28A, IL-28A, Ifnl2, Il28a, EG330496.	
Introduction	
IL-28A is distantly related to the IL-10 family. Expression of IL-28A is induced by viral infection which interacts with a heterodimeric class II cytokine receptor that consists of interleukin 10 receptor, beta (IL10RB) and interleukin 28 receptor, alpha. IL-28A exhibits common features with type I IFNs such as antiviral activity, antiproliferative activity and in vivo antitumour activity. IL-28A acts similarly to IFNs, but is less effective generally and has activity in a more limited range of cell lines. IFN-ambda 1, IFN-lambda 2 and IFN-lambda 3 are closely positioned genes on human chromosome 19. IL-28A induces ELR(-) CXC chemokine mRNA in human peripheral blood mononuclear cells, in an IFN-gamma-independent manner. IL-28A is able to generate tolerogenic DCs, an activity that could thwart IFN-beta functions. IL-28A produced in response to viral infection, activates both monocytes and macrophages producing a restricted panel of cytokines and therefore is an important factor in activating innate immune responses at the site of viral infection.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The Mouse IL-28A is lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4 and 5% trehalose.	
Stability	
Lyophilized IFN-Lambda 2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-Lambda 2 Recombinant should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	

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Purity

Greater than 95% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

DPVPRATRLP VEAKDCHIAQ FKSLSPKELQ AFKKAKDAIE KRLLEKDMRC SSHLISRAWD LKQLQVQERP KALQAEVALT LKVWENMTDS ALATILGQPL HTLSHIHSQL QTCTQLQATA EPKPPSRRLS RWLHRLQEAQ SKETPGCLED SVTSNLFRLL TRDLKCVASG DQCV.

Biological Activity

The ED 50 as determined by an anti-viral assay using human HepG2 cells infected with encephalomyocarditis(EMC) virus is less than 3 ng/ml, corresponding to a specific activity of > 3.3 × 10 5 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized IL-28A in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL 28A Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q4VK74)