

IL 28A Mouse

Description: Recombinant Mouse Interleukin-28A produced in E.Coli is a single, non-glycosylated polypeptide chain containing 174 amino acids and having a total molecular mass of 19.7kDa. The IL-28A is purified by proprietary chromatographic techniques.

Synonyms: Interferon lambda-2, IFN-lambda-2, Interleukin-28A, IL-28A, Ifnl2, Il28a, EG330496.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: DPVPRATRLP VEAKDCHIAQ FKSLSPKELQ AFKKAKDAIE
KRLLEKDMRC SSSLISRAWD LKQLQVQERP KALQAEVALT LKVWENMTDS ALATILGQPL
HTLSHIHSQL QTCTQLQATA EPKPPSRRLS RWLHRLQEAQ SKETPGCLEL SVTSNLFRL
TRDLKCVASG DQCV.

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

Formulation:

The Mouse IL-28A is lyophilized from a 0.2

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

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

Introduction:

IL-28A is distantly related to type I interferons and 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.

Biological Activity:

The ED50 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

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