

## 32-1505: mIL 28A Recombinant Protein

**Alternative Name :** Interferon lambda-2,IFN-lambda-2,Interleukin-28A,IL-28A,Ifnl2,Il28a,EG330496.

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 95% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	The Mouse IL-28A is lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4 and 5% trehalose.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	DPVPRATRLP VEAKDCHIAQ FKSLSPELQ AFKKAKDAIE KRLLEKDMRC SSSLISRAWL LKQLQVQERP KALQAEVALT LKVWENMTDS ALATILGQPL HTLSHIHSQL QTCTQLQATA EPKPPSRRLS RWLHRLQEAQ SKETPGCLEL SVTSNLFRL TRDLKCVASG DQCV.

### Application Note

It is recommended to reconstitute the lyophilized IL-28A in sterile 18MΩ·cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub> 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<sup>5</sup> IU/mg.

