
Product Data Sheet

Product Name: IL 28A Human
 Cat. No.: GP20632
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin-28A; IL-28A; IFN-Lambda 2; IFN-Lambda 2; Cytokine ZCYTO20; IL28A; IFNL2; ZCYTO20.		
Amino Acid Sequence	VPVAR LHGALPDARG CHIAQFKSLS PQELQAFKRAKDALEESLLL KDCRCHSRLF PRTWDLRQLQ VRERPMALEA ELALTLKVLE ATADTDPALV DVLDQPLHTL HHILSQFRAC IQPQPTAGPR TRGRLHHWLY RLQEAPKKES PGCLEASVTFNLFRLLRDL NCVASGDLCV.		
Solubility	It is recommended to reconstitute the lyophilized IL-28A in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2 μm filtered solution containing no additives.		

Introduction

IL-28A is distantly related to type I IFNs 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- λ 1, IFN- λ 2 and IFN- λ 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- γ -independent manner. IL-28A is able to generate tolerogenic DCs, an activity that could thwart IFN- β 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

IL-28A human recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 19.6 kDa.

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