

Recombinant Human IL-28

CATALOG #:	4978-20	20 µg
	4978-1000	1 mg
LOT #:	_____	
SYNONYMS:	Interleukin-28A, IL-28A, IL 28A, IFN-Lambda 2, Interferon-Lambda 2, Cytokine ZCYTO20, IL28A, IFNL2, ZCYTO20.	
SOURCE:	<i>E. coli</i>	
PURITY:	>85% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng/µg of human IL-28.	
MOLECULAR WT:	19.6 kDa	
FORM:	Lyophilized without additives	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile dH₂O not less than 100 µg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized human IL-28A is best-stored desiccated below 0°C. Reconstituted IL-28A should be stored in working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

DESCRIPTION:

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. IL-28A induces ELR(-) CXC chemokine mRNA in human peripheral blood mononuclear cells, in an IFN-gamma-independent manner. 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. Recombinant human IL-28A produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 19.6 kDa.

FOR RESEARCH USE ONLY. Not to be used on humans

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