

## Recombinant Human IL-29

CATALOG #:	4981-20	20 µg
	4981-1000	1 mg
LOT #:	_____	
SYNONYMS:	Interleukin-29, IL 29, IFN-Lambda 1, Interferon-Lambda 1, Cytokine ZCYTO21, IL29, IFNL1, ZCYTO21.	
SOURCE:	<i>E. coli</i>	
PURITY:	>90% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng/µg of human IL-29.	
MOLECULAR WT:	20 kDa	
FORM:	Lyophilized without additives	

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile dH<sub>2</sub>O 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-29 is best-stored desiccated below 0°C. Reconstituted IL-29 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-29 is distantly related to type I interferons and the IL-10 family. Expression of IL-29 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-29 exhibits common features with type I IFNs such as antiviral activity, antiproliferative activity and in vivo antitumour activity. IL-29 acts similarly to IFNs, but is less effective generally and has activity in a more limited range of cell lines. IL-29 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. IFN-Lambda 1 antiviral and antiproliferative activity requires Interferon-Lambda 2 receptor tyrosine residues. Recombinant human IL-29 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 181 amino acids and having a molecular mass of 20 kDa.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

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