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IL 29 Human

Interleukin-29 Human Recombinant
CYK0312

Product Overview

Name	IL 29 Human
Description	
Interleukin-29 Human Recombinant	
Accession (Primary)	Q8IU54
Synonyms	
Interleukin-29, IL-29, IFN-Lambda 1, IFN-Lambda 1, Cytokine ZCYTO21, IL29, IFNL1, ZCYTO21.	
Introduction	
IL-29 is distantly related to type I IFNs 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. IFN-ambda 1, IFN-lambda 2 and IFN-lambda3 are closely positioned genes on human chromosome 19. IL-29 induces ELR(-) CXC chemokine mRNA in human peripheral blood mononuclear cells, in an IFN-gamma-independent manner. IL-29 is able to generate tolerogenic DCs, an activity that could thwart IFN-beta functions. 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 IFN-Lambda 2 receptor tyrosine residues.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 µm filtered solution containing no additives.	
Stability	
Lyophilized IFN-Lambda 1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-Lambda 1 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.

Purity

Greater than 90% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

GPVPTSKPTTT GKGCHIGRFK SLSPQELASF KKARDALEES LKLKNWSCSS PVFPGNWDLR LLQVRERPVA LEAELALTLK VLEAAAGPAL EDVLDQPLHTLHHILSQLQA CIQPQPTAGP RPRGRLHHWL HRLQEAPKKE SAGCLEASVT FNLFRLLTRD LKYVADGNLC LRTSTHPEST.

Solubility

It is recommended to reconstitute the lyophilized IL-29 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL 29 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q8IU54)