9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IL 29 Human, His

Interleukin-29 Human Recombinant, His Tag
CYK0311

Product Overview

Name	IL 29 Human, His
Description	
Interleukin-29 Human Recombinant, His Tag	
Accession (Primary)	Q8IU54
Synonyms	
Interferon lambda-1, IL-29, IL29, IFN-lambda-1, Cytokine Zcyto21, Interleukin-29.	
Introduction	
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. 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 Interferon-Lambda 2 receptor tyrosine residues.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
IL 29 protein solution (1mg/ml) containing 20mM Tris-HCl (pH8.0) and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	

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Greater than 85% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS HMGPVPT SKPTTTGKGC HIGRFKSLSP QELASFKKAR DALEESLKLK

NWSCSSPVFP GNWDLRLLQV RERPVALEAE LALTLKVLEA AAGPALEDVL DQPLHTLHHI LSQLQACIQP

QPTAGPRPRG RLHHWLHRLQ EAPKKESAGC LEASVTFNLF RLLTRDLKYV ADGNLCLRTS THPEST.

Precautions

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

Target Information: (Q8IU54)