Bioactive

IL29 (Human) Recombinant Protein

Catalog # P3635 Size 20 ug

Specification	
Product Description	Human IL29 (Q8IU54, 24 a.a 200 a.a.) partial recombinant protein expressed in Escherichia coli.
Sequence	TSKPTTTGKGCHIGRFKSLSPQELASFKKARDALEESLKLKNWSCSSPVFPGNWDLRLLQVRER PVALEAELALTLKVLEAAAGPALEDVLDQPLHTLHHILSQLQACIQPQPTAGPRPRGRLHHWLHRL QEAPKKESAGCLEASVTFNLFRLLTRDLKYVADGNLCLRTSTHPEST
Host	Escherichia coli
Theoretical MW (kDa)	20
Form	Lyophilized
Preparation Method	Escherichia coli expression system
Purification	lon exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED ₅₀ is determined in an anti-viral assay using human HepG2 cells infected with EMCV is typica lly 1-5 ng/mL.
Storage Buffer	Lyophilized from 20 mM PB, 130 mM NaCl, pH 7.5
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — IL29	
Entrez GenelD	282618
Protein Accession#	<u>Q8IU54</u>
Gene Name	IL29
Gene Alias	IFNL1, IL-29
Gene Description	interleukin 29 (interferon, lambda 1)
Omim ID	<u>607403</u>
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cytokine distantly related to type I interferons and the IL-10 family. This gene, interleukin 28A (IL28A), and interleukin 28B (IL28B) are three closely related cytokine genes that f orm a cytokine gene cluster on a chromosomal region mapped to 19q13. Expression of the cytoki nes encoded by the three genes can be induced by viral infection. All three cytokines have been s hown to interact with a heterodimeric class II cytokine receptor that consists of interleukin 10 rece ptor, beta (IL10RB) and interleukin 28 receptor, alpha (IL28RA). [provided by RefSeq
Other Designations	interferon, lambda 1 interleukin 29

Publication Reference

IRF-1, RIG-I and MDA5 display potent antiviral activities against norovirus coordinately induced by different types of interferons.

 $\mathsf{Dang}\ \mathsf{W}, \mathsf{Xu}\ \mathsf{L}, \mathsf{Yin}\ \mathsf{Y}, \mathsf{Chen}\ \mathsf{S}, \mathsf{Wang}\ \mathsf{W}, \mathsf{Hakim}\ \mathsf{MS}, \mathsf{Chang}\ \mathsf{KO}, \mathsf{Peppelenbosch}\ \mathsf{MP}, \mathsf{Pan}\ \mathsf{Q}.$

Antiviral Research 2018 Jul; 155:48.

Application: Func, Human, HG23 cells

Pathway

- <u>Cytokine-cytokine receptor interaction</u>
- Jak-STAT signaling pathway