CHASELECTION

Recombinant Human IL29/IFN-lambda 1,Tag Free

货号(Catalog Number)：CY126FXXXX(L)

别名(synonym): Human IL29; IFNL1; IFN-lambda 1; IFN-lambda-1; IL29; IL-29; interferon lambda-1

来源(Source)： Human embryonic kidney cell, HEK293-derived human IL-29/IFN-lambda 1 protein

蛋白结构（Structure):

该蛋白不含标签

基因 ID： Q8IU54

氨基酸序列

Gly20-Thr200

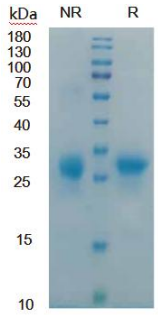
分子量大小(MW)

20.0 kDa (Monomer)

纯度（Purity）

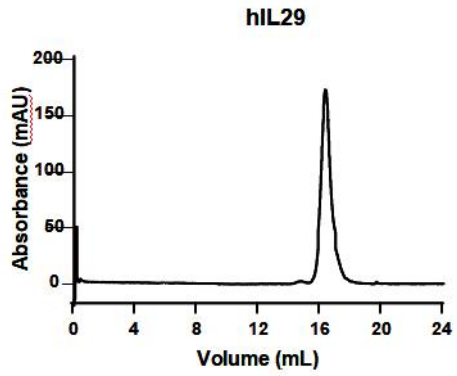
> 95%，determined by SDS-PAGE

SDS-PAGE



2 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

Gel-filtration



Size-exclusion chromatography of recombinant human IL29 protein (280 nm absorbance)

内毒素含量（Endotoxin）

<0.010 EU per 1 ug of the protein by the LAL method

制剂(Formulation)

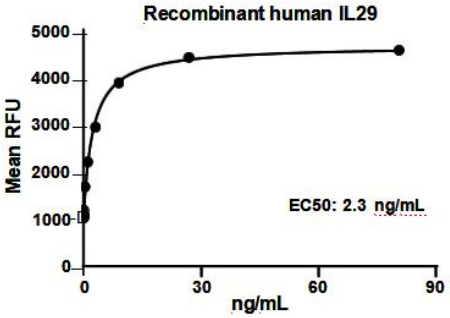
Solution protein.

Dissolved in sterile PBS buffer.

This solution can be diluted into other aqueous buffers.

Centrifuge the vial prior to opening.

活性检测（Biological Activity）



Recombinant human IL29 anti-viral activity using HepG2 human hepatocellular carcinoma cells infected with encephalomyocarditis (EMC) virus

储存与运输(Storage)

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 ° C as supplied.

产品背景介绍（Production）

Interleukin-29(IL-29/IFN-lambda1), IL-28A and IL-28B,also named interferon-lambda 2 (IFN-lambda 2), IFN-lambda 3, and IFN-lambda 1, respectively, are class II cytokine receptor ligands that are distantly related to members of the IL-10 family (11-13% aa sequence identity) and the type I IFN family (15-19% aa sequence identity) . The genes encoding these three cytokines are localized to chromosome 19 and each is composed of multiple exons. The exon organization of

these genes is also found in the IL-10 family genes but is distinct from the type I IFNs, which are encoded within a single exon, The expression of IL-28A, B, and IL-29 is induced by virus infection or double-stranded RNA. All three cytokines exert bioactivities that overlap those of type I IFNs, including antiviral activity and up-regulation of MHC class I antigen expression. The three proteins signal through the same heterodimeric receptor complex that is composed of the IL-10 receptor beta (IL-10 R beta) and a novel IL-28 receptor alpha (IL-28 R alpha, also known as IFN-lambda R1). Ligand binding to the receptor complex induces Jak kinase activation and STAT1 and STAT2 tyrosine phosphorylation. The phosphorylated STAT1 and STAT2 complex with IFN-regulatory factor 9 (IRF-9) to form the IFN-stimulated regulatory factor 3 (ISGF-3) transcription factor complex that is translocated to the nucleus. ISGF-3 binds to the IFN-stimulated response element (ISRE) present in the regulatory region of the target genes. Human IL-29 cDNA encodes a 200 amino acid (aa) residue precursor protein with a putative 19 aa signal peptide and a 181 aa mature protein, which is a monomer in solution. It shares 67% and 69% aa sequence identity with human IL-28A and IL-28B, respectively.