

Recombinant Human Interleukin 27 Receptor, Alpha, Fc Chimera

Cat. No. IL27RA-781H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant HumanIL27RA encoding the extracellular domain (Met1-Arg514) of human IL27R α (NP_004834.1) pro-form was produced in *E.coli*. It was expressed with the C-terminal fused Fc region of human IgG1.

Species

Human

Source

E.coli

ProteinLength

1-514 a.a.

Description

L27R α (IL27R), also well known as WSX-1 and TCCR, is a type I cytokine receptor that functions only as the ligand binding component of the receptor for IL27, and together with the glycoprotein 130 (gp130) coreceptor constitutes a functional signal-transducing receptor mediating the IL27 effects. Neither receptor chain alone is sufficient independent of the other. As a member of the IL6/IL12 family of cytokines, IL27 is not only involved in the development of Th1-type adaptive immune response, but also acts on cells of the innate immune system. In addition, it has been demonstrated that IL27R α , the single component of a heterodimeric cytokine receptor, can aberrantly activate signaling pathways and transform hematopoietic cells in a JAK-dependent manner in acute myeloid leukemia (AML). Accordingly, IL27R α may play an unappreciated role in various myeloproliferative disorders (MPDs) and be identified as a future therapeutic target for this disease.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	The recombinant human IL27R α /Fc is a disulfide-linked homodimeric protein after removal of the signal peptide. The reduced monomer consists of 722 amino acids and has a predicted molecular mass of 79kDa. As a result of glycosylation, the rh IL27R α /Fc monomer migrates as an approximately 105-115kDa band in SDS-PAGE under reducing conditions.
Predicted N Terminal	Gln 21.
Endotoxin	<1.0EU per 1 μ g cytokine as determined by the LAL method.
Formulation	Supplied as a 0.2 μ m filtered solution of PBS, pH7.2.
Reconstitution	Follow the instructions on the vial. Centrifuge the vial at 4°C before opening to recover the entire contents.
Purity	>95%, as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt -70°C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage and be used as soon as possible. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	IL27RA interleukin 27 receptor, alpha [Homo sapiens]
Synonyms	IL27RA; interleukin 27 receptor, alpha; CRL1; TCCR; WSX1; IL27R; zcytor1; WSX-1; IL-27R; class I cytokine receptor; T-cell cytokine receptor type 1; Interleukin-27 receptor subunit alpha; IL-27R-alpha; WSX-1; Type I T-cell cytokine receptor; Protein

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CRL1	
Gene ID	9466
mRNA Refseq	NM_004843
Protein Refseq	NP_004834
MIM	605350
UniProt ID	Q6UWB1
Chromosome Location	19p13.11
Function	interleukin-27 receptor activity; protein binding; transmembrane receptor activity

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