

Recombinant Human IL10RA, His-tagged

Cat. No. IL10RA-54H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human IL10RA, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Species Human

Source Insect Cells

Description IL10RA, also known as Interleukin-10 receptor subunit alpha, is structurally related to interferon receptors. It has been shown to mediate the immunosuppressive signal of interleukin 10, and thus inhibits the synthesis of proinflammatory cytokines. This receptor is reported to promote survival of progenitor myeloid cells through the insulin receptor substrate-2/PI 3-kinase/AKT pathway. Activation of this receptor leads to tyrosine phosphorylation of JAK1 and TYK2 kinases. It has been shown to interact with Interleukin 10 and Janus kinase 1.

Form Liquid. In phosphate buffered saline (pH 7.4) containing 10% glycerol.

Molecular Mass 25.2kDa (220aa) 228-40kDa (SDS-PAGE under reducing conditions.)

AA Sequence
 HGTELPSPPS VWFEAEFFHH ILHWTPIPNQ SESTCYEVAL LRYGIESWNS
 ISNCSQTL SY DLTAVTLDLY HSNGYRARVR AVDGSRRHSNW TVTNTRFSVD
 EVTLTVGSVN LEIHNGFILG KIQLPRPKMA PANDTYESIF SHFREYEIAI
 RKVPGNFTFT HKKVKHENFS LLTSGEVGEF CVQVKPSVAS RSNKGMWSKE
 ECISLTRQYF TVTNHHHHHH

 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

Endotoxin	< 1.0 eu per 1 microgram of protein (determined by lal)
Purity	>85% by SDS - PAGE.
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.2mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	IL10RA interleukin 10 receptor, alpha [Homo sapiens]
Official Symbol	IL10RA
Synonyms	IL10RA; interleukin 10 receptor, alpha; IL10R; interleukin-10 receptor subunit alpha; CD210; CD210a; CDW210A; HIL 10R; IL-10RA; IL-10R subunit 1; IL-10R subunit alpha; IL-10 receptor subunit alpha; interleukin-10 receptor subunit 1; interleukin-10 receptor alpha chain; HIL-10R; IL-10R1;
Gene ID	3587
mRNA Refseq	NM_001558
Protein Refseq	NP_001549
MIM	146933
UniProt ID	Q13651
Chromosome Location	11q23

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Pathway

Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem; Toxoplasmosis, organism-specific biosystem; Toxoplasmosis, conserved biosystem; Tuberculosis, organism-specific biosystem;

Function

interleukin-10 receptor activity; protein binding; receptor activity; signal transducer activity;

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