

## 32-8845: Recombinant Human Interleukin-10 Receptor Subunit Alpha/IL-10 Ra (C-6His)

**Gene :** IL10RA

**Gene ID :** 3587

**Uniprot ID :** Q13651

### Description

Source: E. coli.

MW :25.2kD.

Recombinant Human Interleukin-10 Receptor Subunit Alpha is produced by our E. coli expression system and the target gene encoding His22-Asn235 is expressed with a 6His tag at the C-terminus. Interleukin-10 Receptor alpha (IL-10Ra) is a transmembrane glycoprotein member of the class II cytokine receptor family. Mature human IL-10 Ra consists of a 214 amino acid (aa) extracellular domain (ECD), a 21 aa transmembrane segment, and a 322 aa cytoplasmic domain. Within the ECD, human IL-10 Ra shares 59% aa sequence identity with mouse and rat IL-10Ra. IL-10 Ra is required for mediating the effects of IL-10, a critical molecule in the control of microbial infections, allergic and autoimmune inflammation, and cancer. IL-10Ra is the ligand specific subunit of the IL-10 receptor complex. Noncovalent dimers of IL-10 bind to IL-10 Ra, resulting in the recruitment of IL-10 R beta. Immunosuppressive signal transduction through the IL-10 receptor complex can be inhibited by activation of TLR2, 4, or 9, enabling strengthened immune responses during infection. Polymorphisms of human IL-10 Ra may limit viral immune evasion by retaining full responsiveness to human IL-10 but responding weakly to the cytomegalovirus homolog of IL10.

### Product Info

**Amount :** 10 µg / 50 ug

**Content :** 0.2 mg /ml in Sterile filtered solution of PBS, pH7.4.

**Storage condition :** Aliquoted proteins are stable at -20°C for 3 months.

**Amino Acid :** HGTELPSPPSVWFEEFFHHILHWTPIPNQSESTCYEVALLRYGIESWNSISNCSQTLSDLTAVTL  
DLYHSNGYRARVRAVDGSRHSNWTVTNTRFSVDEVTLTVGSVNLEIHNGFILGKIQLPRPKMAPAN  
DTYESIFSHFREYEIAIRKVPGNFTFTHKKVKHENFSLTSGEVGEFCVQVKPSVASRSNKGMMWSK  
EECISLTRQYFTVTNHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.