

## IL-10 R alpha active protein

Recombinant IL-10 R alpha

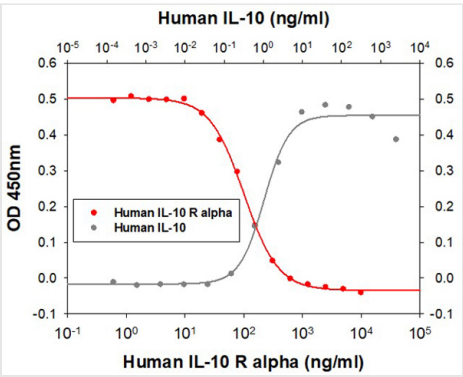
|                              |                            |                                 |
|------------------------------|----------------------------|---------------------------------|
| CATALOG #<br><b>AAA48321</b> | HOST<br><b>Baculovirus</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|----------------------------|---------------------------------|

### PRODUCT SYNONYMS

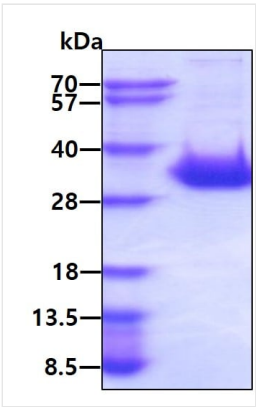
IL-10 R alpha; Recombinant IL-10 R alpha; IL10RA; Interleukin-10 receptor subunit alpha; CD210; CD210a; CDW210A; HIL-10R; IL-10R1; IL10R; IL-10 receptor subunit alpha; IL-10R subunit alpha; IL-10RA; Interleukin-10receptor subunit 1; IL-10R subunit 1; IL-10 R alpha active protein

### PRODUCT SPECIFICATIONS

|                                                          |                                                                                                                                                                                                                                        |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                     | Baculovirus                                                                                                                                                                                                                            |
| Purity/Purification                                      | > 90% by SDS - PAGE.                                                                                                                                                                                                                   |
| Form/Format                                              | Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol.                                                                                                                                                                 |
| Concentration                                            | 0.2mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                                |
| Sequence Positions                                       | 22-235aa                                                                                                                                                                                                                               |
| Sequence                                                 | HGTELPSPPS VWFEAEFFHH ILHWTPIPNQ SESTCYEVAL LRYGIESWNS ISNCSQTLST DLTAVTLDLY<br>HSNGYRARVR AVDGSRHSNW TVTNTRFSVD EVTLTVGSVN LEIHNGFILG KIQLPRPKMA PANDTYESIF<br>SHFREYEIAI RKVPGNFTFT HKKVKHENFS CVQVKPSVAS RSNKGMWSKE ECISLTRQYF TVTN |
| Sequence Length                                          | 578                                                                                                                                                                                                                                    |
| Applicable Applications for IL-10 R alpha active protein | Bioactivity, SDS-PAGE                                                                                                                                                                                                                  |
| Tag                                                      | His-Tag                                                                                                                                                                                                                                |
| Biological Activity                                      | Measured by its ability to inhibit proliferation using MC/9 mouse mast cells. The ED50 for this effect is <= 300 ng/ml with Human IL-10.                                                                                               |
| Predicted nterm                                          | His 22                                                                                                                                                                                                                                 |
| Endotoxin                                                | < 1 EU per 1ug of protein (determined by LAL method)                                                                                                                                                                                   |
| Preparation and Storage                                  | Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.                                                                                          |



**Bioactivity**  
Human IL-10 R alpha inhibits Human IL-10 induced cell proliferation in the MC/9 mouse mast cells. The ED50 range is



**SDS-PAGE**  
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for IL-10 R alpha active protein | IL-10 R alpha, 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. Recombinant human IL-10 R alpha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques. |
| Product Categories/Family for IL-10 R alpha active protein   | Hormones & Cytokines; Immunology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| References                                                   | Josephson K, et al. (2001) Acta Crystallogr D Biol Crystallogr. 57(Pt 12):1908-11.; Usacheva A, et al. (2002) J Immunol. 169(3):1302-8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------|
| NCBI GI #                        | 222136575                                                                                     |
| NCBI GeneID                      | 3587                                                                                          |
| NCBI Accession #                 | NP_001549.2                                                                                   |
| NCBI GenBank Nucleotide #        | NP_001549.2                                                                                   |
| UniProt Accession #              | Q13651                                                                                        |
| Molecular Weight                 | 25.2kDa (220aa)                                                                               |
| NCBI Official Full Name          | interleukin-10 receptor subunit alpha                                                         |
| NCBI Official Synonym Full Names | interleukin 10 receptor subunit alpha                                                         |
| NCBI Official Symbol             | IL10RA                                                                                        |
| NCBI Official Synonym Symbols    | CD210; IL10R; CD210a; CDW210A; HIL-10R; IL-10R1                                               |
| NCBI Protein Information         | interleukin-10 receptor subunit alpha                                                         |
| UniProt Protein Name             | Interleukin-10 receptor subunit alpha                                                         |
| UniProt Gene Name                | IL10RA                                                                                        |
| UniProt Synonym Gene Names       | IL10R; IL-10 receptor subunit alpha; IL-10R subunit alpha; IL-10RA; IL-10R subunit 1; IL-10R1 |
| UniProt Entry Name               | I10R1_HUMAN                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/il-10-r-alpha/48321>