

# Recombinant Full Length Human IL5RA Protein

**Cat. No.** IL5RA-5687HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Human IL5RA full-length ORF (NP_783852.1) recombinant protein without tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 870 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | The protein encoded by this gene is an interleukin 5 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL5 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL5. This protein has been found to interact with syndecan binding protein (syntenin), which is required for IL5 mediated activation of the transcription factor SOX4. Six alternatively spliced transcript variants encoding three distinct isoforms have been reported. [provided by RefSeq] |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 38 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MIIVAHVLLILLGATEILQADLLPDEKISLLPPVNFTIKVTGLAQVLLQWKPNPDQEQRN<br>VNLEYQVKINAPKEDDYETRITESKCVTILHKGFSASVRTILQNDHSLASSWASAEI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

HAPPGSPGTSIVNLTCTTNTTEDNYSRLRSYQVSLHCTWLVGTDAPEDTQYFLYYR  
YGSWTEECQEYSKDTLGRNIACWFPRTFILSKGRDWLAVLVNGSSKHSAIRPFDQL  
FALHAIDQINPPLNVTAIEGTRLSIQWEKPVSAFPIHCFDYEYVKIHNTRNGYLQIEKL  
MTNAFISIDDLKSYDVQVRAAVSSMCREAGLWSEWSQPIYVGFSR

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| <b>Applications</b>   | Antibody Production<br>Functional Study<br>Compound Screening            |
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.   |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| <b>Storage Buffer</b> | 25 mM Tris-HCl of pH8.0 containing 2% glycerol.                          |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IL5RA interleukin 5 receptor, alpha [ Homo sapiens ]                                                                                                                                                                                                    |
| <b>Official Symbol</b> | IL5RA                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | IL5RA; interleukin 5 receptor, alpha; IL5R; interleukin-5 receptor subunit alpha; CD125; CDw125; CD125 antigen; IL-5R subunit alpha; IL-5 receptor subunit alpha; interleukin 5 receptor type 3; interleukin-5 receptor alpha chain; HSIL5R3; MGC26560; |
| <b>Gene ID</b>         | 3568                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_000564                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>  | NP_000555                                                                                                                                                                                                                                               |

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| MIM | 147851 |
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| UniProt ID | Q01344 |
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