

# Recombinant Human Interleukin 13 Receptor, Alpha 2

**Cat. No.** IL13RA2-1651H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>                | Sf21 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>           | Interleukin 13 receptor alpha 2, also known as IL13RA2 and CD213A2, binds IL13 with high affinity, but lacks cytoplasmic domain, and does not appear to function as a signal mediator. IL13RA2 serves as a dominant negative inhibitor or a decoy receptor for IL-13. IL-13Ralpha2 is a promising target for ovarian cancer therapy, and the soluble form of IL-13R may be a possible surrogate marker for disease monitoring. IL13RA2 signaling during prolonged inflammation is also an important therapeutic target for the prevention of TGF-beta(1)-mediated fibrosis. |
| <b>Molecular Weight</b>      | The predicted molecular weight of Recombinant Human IL-13 Rα2 is Mr 65 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 74 kDa.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>State Of Matter</b>       | Lyophilized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>                | >90% by SDS Page and analyzed by silver stain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Endotoxin</b>             | <1.0 EU/g as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage And Stability</b> | This lyophilized protein is stable for six to twelve months when stored desiccated at -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | IL13RA2 interleukin 13 receptor, alpha 2 [ Homo sapiens ]                                                                                                                                                                                                                                          |
| <b>Synonyms</b>            | IL13RA2; interleukin 13 receptor, alpha 2; CT19; IL-13R; IL13BP; CD213A2; OTTHUMP00000023871; cancer/testis antigen 19; interleukin 13 binding protein; interleukin 13 receptor alpha 2 chain; IL-13 receptor; CD213a2; IL13R; OTTHUMP00000023871; CD213a2 antigen; Interleukin-13-binding protein |
| <b>Gene ID</b>             | 3598                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_000640                                                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>      | NP_000631                                                                                                                                                                                                                                                                                          |
| <b>MIM</b>                 | 300130                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | Q14627                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | Xq13.1-q28                                                                                                                                                                                                                                                                                         |
| <b>Pathway</b>             | Jak-STAT signaling pathway                                                                                                                                                                                                                                                                         |
| <b>Function</b>            | cytokine receptor activity; receptor activity                                                                                                                                                                                                                                                      |

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