

# Active Recombinant Mouse Il1rn Protein, His-Tagged

**Cat. No.** Il1rn-01M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse Il1rn Protein, His-tagged was expressed in E. coli cell                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | The interleukin-1 receptor antagonist (IL-1RA) is a protein that in humans is encoded by the IL1RN gene. IL-1RA was initially called the IL-1 inhibitor and was discovered separately in 1984 by two independent laboratories. IL-1RA is an agent that binds non-productively to the cell surface interleukin-1 receptor (IL-1R), the same receptor that binds interleukin 1 (IL-1), preventing IL-1 from sending a signal to that cell. |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MRPSGKRPCCKMQAFRIWDTNQKTFYLRNNQLIAGYLQGPNIKLEEKIDMVPIDLHSV<br>FLGIHGGKLCLSCAKSGDDIKLQLEEVNITDLSKNK<br>EEDKRFTFIRSEKGPPTTSFESAACPGWFLCTTLEADRPVSLTNTPEEPLIVTKFYFQE<br>DQ with polyhistidine tag at the C-terminus                                                                                                                                                                                                                         |
| <b>Endotoxin</b>        | <0.1 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Bio-activity</b>     | Measure by its ability to inhibit IL-1 alpha-dependent proliferation in D10.G4.1 cells.<br>The ED50 for this effect is < 50 ng/mL.                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >98% as determined by SDS-PAGE. Ni-NTA chromatography                                                                                                                                                                                                                                                                                                                                                                                    |

 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

|                       |                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Buffer</b> | The protein was lyophilized from a solution containing 1X PBS, pH 7.4.                                                                                                                                                  |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. |
| <b>Storage</b>        | Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.                                                                                                |
| <b>Notes</b>          | Please use within one month after protein reconstitution.                                                                                                                                                               |

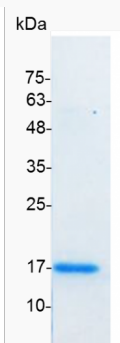
## GENE INFORMATION

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Il1rn interleukin 1 receptor antagonist [ <i>Mus musculus</i> (house mouse) ] |
| <b>Official Symbol</b> | Il1rn                                                                         |
| <b>Synonyms</b>        | IL-1ra; F630041P17Rik                                                         |
| <b>Gene ID</b>         | 16181                                                                         |
| <b>mRNA Refseq</b>     | NM_001039701.3                                                                |
| <b>Protein Refseq</b>  | NP_001034790.1                                                                |
| <b>UniProt ID</b>      | P25085                                                                        |

 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



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