

## Product datasheet for **TP728342M**

### Recombinant IL-1RA (Interleukin-1 receptor antagonist), Mouse

#### Product data:

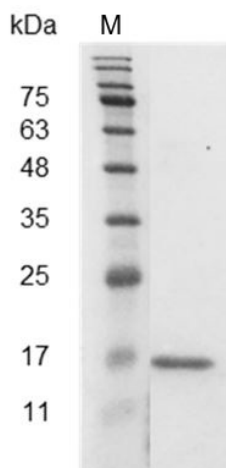
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|--|---|
| <b>Product Type:</b>                         | Recombinant Proteins  |
| <b>Description:</b>                          | Recombinant IL-1RA (Interleukin-1 receptor antagonist), Mouse   |
| <b>Species:</b>                              | Mouse   |
| <b>Expression Host:</b>                      | E. coli   |
| <b>Expression cDNA Clone or AA Sequence:</b> | MRPSGKRPCMKQAFRIWDTNQKTFYLRNNQLIAGYLQGPNIKLEEKIDMVPIDLHSVFLGIHGGKLCCLSC AKSGDDIKLQLEEVNITDLSKNKEEDKRFTFIRSEKGPSTSFESAACPGWFLCTTLEADRPVSLTNTPEEPLIV TKFYFQEDQ with polyhistidine tag at the C-terminus.  |
| <b>Tag:</b>                                  | His Tag (C-term)  |
| <b>Predicted MW:</b>                         | The protein has a calculated MW of 18.27 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).  |
| <b>Purity:</b>                               | >98% as determined by SDS-PAGE.   |
| <b>Buffer:</b>                               | The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4.  |
| <b>Bioactivity:</b>                          | Measure by its ability to inhibit IL-1 alpha -dependent proliferation in D10.G4.1 cells. The ED <sub>50</sub> for this effect is <50 ng/mL.   |
| <b>Endotoxin:</b>                            | <0.1 EU per 1 µg of the protein by the LAL method.  |
| <b>Reconstitution Method:</b>                | Centrifuge at 3000 rpm for 5 mins before opening. 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 at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein. |
| <b>Applications:</b>                         | Cell culture  |
| <b>Storage:</b>                              | Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.                        |
| <b>UniProt ID:</b>                           | <a href="#">P25085</a>  |
| <b>Synonyms:</b>                             | ICIL-1RA, IRAP, IL-1RN, F630041P17Rik   |



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**Summary:**

Interleukin 1 receptor antagonist (IL-1RA) predicts a molecular mass of 19.8 kDa, is a member of the IL-1 family that binds to IL-1 receptors but does not induce any intracellular response. Two structural variants of IL-1RA have previously been described: a 17 kDa form that is secreted from monocytes, macrophages, neutrophils, and other cells (sIL-1RA) and an 18 kDa form that remains in the cytoplasm of keratinocytes and other epithelial cells, monocytes, and fibroblasts (icIL-1RA).

**Product images:**

SDS- PAGE analysis of recombinant mouse IL-1RA