

ARG70153 Mouse IL1RA recombinant protein (Active) (His-tagged, C-ter)

Package: 100 µg, 20 µg
Store at: -20°C

Summary

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| Product Description | E. coli expressed, His-tagged (C-ter) Active Mouse IL1RA recombinant protein |
| Tested Application | SDS-PAGE |
| Target Name | IL1RA |
| Species | Mouse |
| A.A. Sequence | Arg27 - Gln178 |
| Expression System | E. coli |
| Activity | Active |
| Activity Note | Determined by its ability to inhibit IL-1 alpha -dependent proliferation in D10.G4.1 cells. The ED50 for this effect is < 50 ng/mL. |
| Alternate Names | IL1 inhibitor; Interleukin-1 receptor antagonist protein; ICIL-1RA; MVCD4; IL1RA; DIRA; IL-1RN; Anakinra; IL1F3; IRAP; IL-1ra; IL-1ra3 |

Properties

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| Form | Powder |
| Purification Note | Endotoxin level is less than 0.1 EU/µg of the protein, as determined by the LAL test. |
| Purity | > 98% (by SDS-PAGE) |
| Buffer | PBS (pH 7.4) |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely. |
| Storage instruction | For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

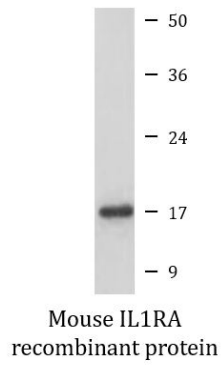
| | |
|----------------|---|
| Gene Symbol | IL1RN |
| Gene Full Name | interleukin 1 receptor antagonist |
| Background | The protein encoded by this gene is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. A polymorphism of this gene is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008] |
| Function | Inhibits the activity of interleukin-1 by binding to receptor IL1R1 and preventing its association with the |

coreceptor IL1RAP for signaling. Has no interleukin-1 like activity. Binds functional interleukin-1 receptor IL1R1 with greater affinity than decoy receptor IL1R2; however, the physiological relevance of the latter association is unsure. [UniProt]

Cellular Localization

Isoform 1: Secreted. Isoform 2: Cytoplasm. Isoform 3: Cytoplasm. Isoform 4: Cytoplasm. [UniProt]

Images



ARG70153 Mouse IL1RA recombinant protein (Active) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70153 Mouse IL1RA recombinant protein (Active) (His-tagged, C-ter).