

ARG70044 Human IL1RA recombinant protein (Active) (His-tagged, C-ter)

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

Summary

Product Description	E. coli expressed, His-tagged (C-ter) Active Human IL1RA recombinant protein
Tested Application	SDS-PAGE
Target Name	IL1RA
Species	Human
A.A. Sequence	Arg26 - Glu177
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

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

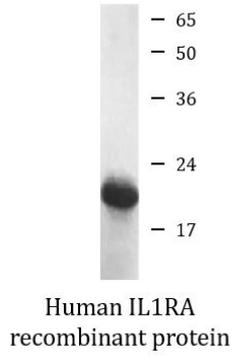
Gene Symbol	IL1RN
Gene Full Name	interleukin 1 receptor antagonist
Background	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 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



ARG70044 Human IL1RA recombinant protein (Active) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70044 Human IL1RA recombinant protein (Active) (His-tagged, C-ter).