Recombinant Human IL1RN therapeutic protein(Anakinra)

Cat. No. IL1RN-P038H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The therapeutic protein is a recombinant, nonglycosylated human interleukin-1 receptor antagonist (IL-1Ra). The difference between the protein and the native human IL-1Ra is that the protein has an extra methionine residue at the amino terminus. It is manufactured by using the E. coli expression system.
Species	Human
Source	E.coli
ProteinLength	153 aa
Description	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. The expression product is the active ingredient of Kineret.
Molecular Mass	17.3 kDa
AA Sequence	MRPSGRKSSKMQAFRIWDVNQKTFYLRNNQLVAGYLQGPNVNLEEKIDVVPIEPHA LFLGIHGGKMCLSCV KSGDETRLQLEAVNITDLSENRKQDKRFAFIRSDSGPTTSFE SAACPGWFLCTAMEADQPVSLTNMPDEGV MVTKFYFQEDE

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Endotoxin	< 0.1 EU per μg of the protein
Purity	>95%
Storage	Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoidrepeated freezing and thawing cycles.
Alias	IL1RN; DIRA; MVCD4; IL-1RN; IL-1ra; IL-1ra3; ICIL-1RA; Anakinra

GENE INFORMATION

Gene Name	IL1RN interleukin 1 receptor antagonist [Homo sapiens]
Official Symbol	IL1RN
Synonyms	IL1RN; interleukin 1 receptor antagonist; interleukin-1 receptor antagonist protein; ICIL 1RA; IL 1RN; IL1F3; IL1RA; interleukin 1 receptor antagonist protein; intracellular interleukin 1 receptor antagonist; IRAP; MGC10430; IL1 inhibitor; IL1RN (IL1F3); type II interleukin-1 receptor antagonist; intracellular IL-1 receptor antagonist type II; intracellular interleukin-1 receptor antagonist (icIL-1ra); DIRA; MVCD4; IL-1RN; IL-1ra; IL-1ra3; ICIL-1RA;
Gene ID	3557
mRNA Refseq	NM_000577
Protein Refseq	NP_000568
MIM	147679

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UniProt ID	P18510
Chromosome Location	2q14.2
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; IL-1 Signaling Pathway, organism-specific biosystem; IL1-mediated signaling events, organism-specific biosystem; Immune System, organism-specific biosystem; Interleukin-1 signaling, organism-specific biosystem; Signaling by Interleukins, organism-specific biosystem;
Function	interleukin-1 Type I receptor antagonist activity; interleukin-1 Type II receptor antagonist activity; interleukin-1 receptor antagonist activity; interleukin-1 receptor antagonist activity; interleukin-1 receptor binding; interleukin-1, Type I receptor binding; interleukin-1, Type II receptor binding;

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