

Active Recombinant Human IL1RN Protein (Arg26-Glu177), C-His tagged, Animal-free, Carrier-free

Cat. No. IL1RN-164H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL1RN Protein (Arg26-Glu177) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Arg26-Glu177
Description	Interleukin 1 receptor antagonist (IL-1RA) is a 17.26 kDa member of IL-1 family with 153 amino acid residues. IL-1RA is expressed by peripheral blood cells, lungs, spleen, liver and is secreted from monocytes, macrophages, neutrophils, and other cells. Inhibits the activity of interleukin-1 by binding to receptor IL1R1. IL-1RA can modulate a variety of interleukin-1 related immune and inflammatory responses, particularly in the acute phase of infection and inflammation.
Form	Lyophilized
Bio-activity	Measure by its ability to inhibit IL-1 alpha -dependent proliferation in D10.G4.1 cells. The ED50 for this effect is < 50 ng/mL.
Molecular Mass	The protein has a calculated MW of 18.07 kDa. The protein migrates as 19 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	IL1RN interleukin 1 receptor antagonist [Homo sapiens (human)]
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;

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Gene ID	3557
mRNA Refseq	NM_000577
Protein Refseq	NP_000568
MIM	147679
UniProt ID	P18510

**SDS-PAGE analysis
of recombinant
human IL-1RA.**

