

Active Recombinant Human IL1RN Protein

Cat. No. IL1RN-153H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL1RN Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Interleukin-1 receptor antagonist (IL-1RA) binds the interleukin 1 receptor (IL-1R) to antagonize interleukin 1 alpha and beta signaling. IL-1RA is secreted by immune cells, epithelial cells, hepatocytes, and adipocytes to inhibit IL-1-induced inflammation. IL-1RA therapy is used to treat auto-inflammatory diseases such as diabetes and rheumatoid arthritis.
Bio-activity	Inhibition of human IL-1 alpha induced proliferation of D10.G4.1 cells, ED50≤50 ng/mL
Molecular Mass	17.3 kDa (with 153 amino acids)
AA Sequence	MRPSGRKSSKMQAFRIWDVNQKTFYLRNNQLVAGYLQGPNVNLEEKIDVVPIEPHA LFLGIHGGKMCLSCVKSGDETRLQLEAVNITDLSENKQDKRFAFIRSDSGPTTSFE SAACPGWFLCTAMEADQPVSLTNMPDEGVMVTKFYFQEDE
Endotoxin	≤1 EUs/μg, Kinetic LAL (50% confidence)
Purity	≥95%, Reducing and Non-Reducing SDS PAGE

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Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

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

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