

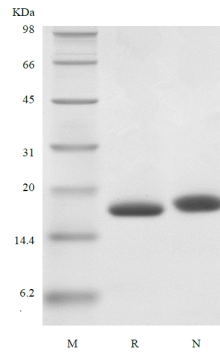
IL1RN

Recombinant Human Interleukin-1 Receptor Antagonist

Catalog No.	CRI134B CRI134C CRI134D	Quantity:	100 µg 1.0 mg 500 µg
Alternate Names:	Interleukin-1 receptor antagonist protein, IL-1RN, IL-1ra, IL-1RAP, IL-1 inhibitor		
Description:	Interleukin-1 receptor antagonist (IL-1ra) is a member of the IL-1 family. Endogenous IL-1ra is produced in numerous animal disease models as well as in human autoimmune and chronic inflammatory diseases. It binds to IL-1 receptors in competition with IL-1, but does not elicit intracellular response from this binding. Its role in counteracting the proinflammatory effects of IL-1 is being studied by numerous research groups. IL-4 and IL-13 have been shown to amplify the stimulatory effect of IL-1-beta on the production of soluble and intracellular forms of IL-1ra. The regulated expression of IL-1ra in various cell types has been shown to be influenced by cytokines. In synovial fibroblasts the synthesis of IL-1ra is markedly enhanced by IL-1, TNF-alpha, or PDGF.		
UniProt ID:	P18510		
GeneID:	3557		
Source:	<i>E. coli</i>		
Molecular Weight:	17.1 kDa (152 aa) monomer		
Formulation:	Lyophilized from a sterile filtered solution in PBS, pH 7.4		
Purity:	>96% by HPLC and SDS-PAGE		
Endotoxin Level:	< 1 EU/µg of rHuIL-1RA as determined by LAL method.		
Biological Activity:	ED ₅₀ < 40 ng/ml, determined by inhibiting IL-1α-dependent proliferation of murine D10S cells in the presence of 50 pg/ml rHuIL-1α.		
Specific Activity:	> 2.5 × 10 ⁴ IU/mg		
Amino Acid Sequence:	RPSGRKSSKM QAFRIWDVNQ KTFYLRNNQL VAGYLQGPNV NLEEKIDVVP IEPHALFLGI HGGKMCLSCV KSGDETRLQL EAVNITDLSE NRKQDKRFAF IRSDSGPTTS FESAACPGWF LCTAMEADQP VSLTNMPDEG VMVTKFYFQE DE		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	Store unopened vial at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for up to 1 month or prepare working aliquots and store at -20°C to -80°C for up to 3 months. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. Avoid repeated freeze-thaw cycles.		



SDS-PAGE



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