

Recombinant Murine Interleukin-1 Receptor Antagonist (rm IL-1RA / IL1F3)

Murine IL-1RA is a member of the Interleukin 1 cytokine family. This protein inhibits the activities of Interleukin-1alpha (IL-1a) and Interleukin-1beta (IL-1b) 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.

Recombinant murine Interleukin-1 Receptor antagonist produced in E.Coli is a single, non-glycosylated polypeptide chain containing 153 amino acids and having a molecular mass of 17.4kDa. The IL1ra is purified by proprietary chromatographic techniques.

Synonyms :	IRAP, ICIL-1RA, IL1 inhibitor,
Source:	<i>Escherichia coli</i>
AA Sequence:	MRPSGKRPK M QAFRIWDTN QKTFYLRNNQ LIAGYLQGP N IKLEEKIDMVP IDLHSVFLG IHGGKLC LSC AKSGDDIKLQ LEEVNITDLS KNKEEDKRFT FIRSEKGPTT SFESAACPGW FLCTTLEADR PVSLTNTPEE PLIVTKFYFQ EDQ
Formulation:	Lyophilized from a 0.22 µm filtered solution in 50 mM sodium citrate, 150 mM NaCl, pH 5.5
Reconstitution:	Reconstitute in sterile endotoxin free water not less than 100 µg/ml
Stability:	Lyophilized rm IL-1RA, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rm IL-1RA should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0,1 % HSA or BSA). Avoid repeated freeze/thaw cycles.
Biological Activity:	Determined by dose dependent inhibition of hIL-1 induced proliferation of murine cell line D10G4.1. The ED ₅₀ in the presence of 50 pg/ml rhIL-1 is < 10ng/ml.
Purity:	95.0% as determined by SDS-PAGE.
Endotoxicity:	The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method
Order N°:	rm IL-1RA+Size available sizes: 5 µg, 25 µg, 100 µg

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