9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IL 1RA Mouse

Interleukin-1 Receptor Antagonist Mouse Recombinant
CYK0283

Product Overview

Name	IL 1RA Mouse
Description	
Interleukin-1 Receptor Antagonist Mouse Recombinant	
Accession (Primary)	P25085
Synonyms	
IRAP, IL1F3, IL1RA, IL-1ra3, ICIL-1RA, IL1RN, IL1 inhibitor, IL-1ra, F630041P17Rik.	
Introduction	
Interleukin-1 ra 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) solution in water containing NaHCO3.	
Stability	
Lyophilized Interleukin 1ra although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution 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). Please prevent freeze-thaw cycles.	
Purity	
Greater than 98.0% as determined by: (a) Analysis by Gel Filtration. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
The sequence of the first six N-terminal amino acids was determined and was found to be Ala-Cys-Arg-Pro-Ser-Gly.	
Biological Activity	

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The mouse IL-1Ra is capable of inhibiting IL-1-alpha activity in helper T cell line D10.G4.1.

Solubility

It is recommended to reconstitute the lyophilized Interleukin-1ra in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.91 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of IL-1 ra as a Reference Standard.

Precautions

IL 1RA Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P25085)