
Product Data Sheet

Product Name: IL 1RA Mouse
Cat. No.: GP20463
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IRAP; IL1F3; IL1RA; IL-1ra3; ICIL-1RA; IL1RN; IL1 inhibitor; IL-1ra; F630041P17Rik.		
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.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-1ra in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution in water containing NaHCO ₃ .		

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.

Biological Activity

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

Stability

Lyophilized Interleukin 1ra although stable at room temperature for 3 weeks, should be

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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.

Background

IL1 ra Mouse Recombinant 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.

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