
Product Data Sheet

Product Name: IL 1RA Rat
 Cat. No.: GP20465
 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; MGC10430.		
Amino Acid Sequence	HPAGKRPKM QAFRIWDTNQ KTFYLRNNQL IAGYLQGPNT KLEEKIDMVP IDFRNVFLGI HGGKLCLSCV KSGDDTKLQL EEVNITDLNK NKEEDKRFTF IRSETGPTTS FESLACPGWF LCTTLEADHP VSLTNTPKPEP CTVTKFYFQE DQ		
Solubility	It is recommended to reconstitute the lyophilized IL 1RA in sterile 18MQ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

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

Fully biologically active when compared to standard. Measured by its ability to inhibit IL1a-dependent proliferation in D10.G4.1 mouse helper T cells. The ED50 for this effect is typically 30-150ng/ml (corresponding to a specific activity of 6,667-33,334units/mg) in the presence of 50pg/ml of rIL1a.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized IL 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 . Please prevent freeze-thaw cycles.

Background

IL 1RA Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 152 amino acids and having a molecular mass of 17.5kDa. The IL 1RA Rat is purified by proprietary chromatographic techniques.

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