9051 Mira Mesa Blvd, #910094
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IL 1RA Rat

Interleukin-1 Receptor Antagonist Rat Recombinant
CYK0286

Product Overview

Name	IL 1RA Rat

Description

Interleukin-1 Receptor Antagonist Rat Recombinant

Synonyms

IRAP, IL1F3, IL1RA, IL-1ra3, ICIL-1RA, IL1RN, IL1 inhibitor, IL-1ra, MGC10430.

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

Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.

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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

HPAGKRPCKM QAFRIWDTNQ KTFYLRNNQL IAGYLQGPNT KLEEKIDMVP IDFRNVFLGI HGGKLCLSCV KSGDDTKLQL EEVNITDLNK NKEEDKRFTF IRSETGPTTS FESLACPGWF LCTTLEADHP VSLTNTPKEP CTVTKFYFQE DQ

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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 rrIL1a.

Solubility

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

Precautions

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