



Interleukin-1 Receptor Antagonist, His Tag, mouse recombinant (rIL-1RA-His)

Catalog No: 97488
Lot No: XXXXX
Source: *E. coli*
Synonyms: IRAP, IL1F3, IL1RA, IL-1ra3, ICIL-1RA, IL1RN, IL1 inhibitor, IL-1ra, F630041P17Rik

Background

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.

Description

IL-1RA mouse recombinant produced *E. coli* is a single polypeptide chain containing 177 amino acids (27-178) and having a molecular mass of 20 kDa. IL-1RA is fused to a 25 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The IL-1RA solution (1 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 0.1 M NaCl and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSHMRPSGK RPCKMQAFRI WDTNQKTFYL RNNQLIAGYL QGPNIKLEEK IDMVPIDLHS
VFLGIHGKGL CLSCAKSGDD IKLQLEEVNI TDLSKNKEED KRFTFIRSEK GPTTSFESAA CPGWFLCTTL EADRPVSLTN
TPEEPLIVTK FYFQEDQ

Usage

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