

# Recombinant mouse IL-1Ra/IL1RN protein

Catalog Number: ATGP3884

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

27-178aa

### UniProt No.

P25085

### NCBI Accession No.

NP\_001034790

### Alternative Names

Interleukin-1 receptor antagonist protein, IL-1RN, IL-1ra, IRAP, IL1 inhibitor, IL1RA

### Additional Information

ATGP1516 has been replaced with a catalog number ATGP3884.

## PRODUCT SPECIFICATION

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### Molecular Weight

20 kDa (177aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by its ability to inhibit proliferation using D10.G4.1 mouse helper T cells. The ED50 for this effect is less or equal to 60ng/ml with Mouse IL-1 alpha.

### Tag

His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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## BACKGROUND

### Description

Interleukin 1 receptor antagonist (IL1RN), also known as IL1-RA, is a member of the interleukin 1 cytokine family. IL1RN may represent a reservoir of IL-1 inhibitors, released upon cell death, whose function is no limit the pro-inflammatory signals but most prominently by mononuclear phagocytes and keratinocytes. IL1RN is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Recombinant mouse IL1RN protein, fused to His-tag at N-terminus was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

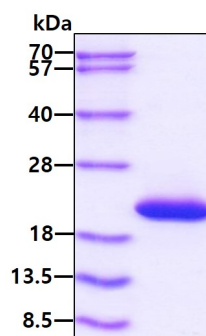
<MGSSHHHHHH SGLVPRGSH MGSHM>RPSGK RPKMQAFRI WDTNQKTFYL RNNQLIAGYL QGPNIKLEEK  
IDMVPIDLHS VFLGIHGGKL CLSCAKSGDD IKLQLEEVNI TDLSKNKEED KRFTFIRSEK GPTTSFESAA CPGWFLCTTL  
EADRPVSLTN TPEEPLIVTK FYFQEDQ

### General References

Steinkasserer A., et al. (1992) Genomics. 13(3):654-7.  
Langdahl BL., et al. (2000) J Bone Miner Res. 15(3): 403-14.

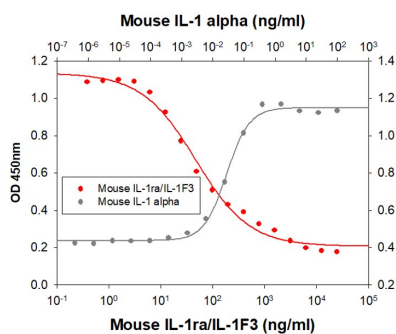
## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

### Biological Activity



Mouse IL-1ra/IL-1F3 inhibits Mouse IL-1 alpha induced cell proliferation in the D10.G4.1 mouse helper T cell. The ED50 range is less or equal to 60 ng/ml.