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# Recombinant mouse IL-1Ra/IL1RN protein

Catalog Number: ATGP3884

## **PRODUCT INFORMATION**

# **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**

#### **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 proinflammatory 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**

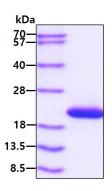
<MGSSHHHHHH SSGLVPRGSH MGSHM>RPSGK RPCKMQAFRI WDTNQKTFYL RNNQLIAGYL QGPNIKLEEK IDMVPIDLHS VFLGIHGGKL CLSCAKSGDD IKLQLEEVNI TDLSKNKEED KRFTFIRSEK GPTTSFESAA CPGWFLCTTL EADRPVSLTN TPEEPLIVTK FYFQEDQ

#### **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.

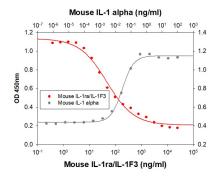
## **DATA**

#### **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.

