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Recombinant human IL-1Ra/IL1RN protein

Catalog Number: ATGP3934

PRODUCT INFORMATION

Expression system

E.coli

Domain

26-177aa

UniProt No.

P18510

NCBI Accession No.

NP 776214

Alternative Names

Interleukin-1 receptor antagonist protein, IL-1RN, IL-1ra, IRAP, ICIL-1RA, IL1 inhibitor, IL1F3, IL1RA

PRODUCT SPECIFICATION

Molecular Weight

17.2 kDa (153aa), confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid. In Phosphate-Buffered Saline (pH7.4)

Purity

> 95% by SDS - PAGE

Endotoxin level

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

Biological Activity

The activity is determined by the IFN-g ELISA in a using NK-92 human natural killer cells. The ED50 range \leq 10 ng/ml.

Tag

Non-Tagged

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.

BACKGROUND



Recombinant human IL-1Ra/IL1RN protein

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Description

IL-1RA/IL-1F3, also known as interleukin-1 receptor antagonist, is a glycosylated protein and a powerful antiinflammatory agent. IL-1RA is a pan-physiological inhibitor of IL-1 that prevents the activation of IL-1 receptors by inhibiting IL-1 binding to its receptors. It can inhibit angiogenesis by blocking the activation of the IL-1 α /PI3K/NF- κ B pathway in IL-1-producing human colon cancer cells. Also, Several autoimmune and inflammatory diseases have been associated with an allelic polymorphism of the IL-1RA. Recombinant human IL-1RA was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

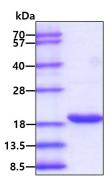
MRPSGRKSSK MQAFRIWDVN QKTFYLRNNQ LVAGYLQGPN VNLEEKIDVV PIEPHALFLG IHGGKMCLSC VKSGDETRLQ LEAVNITDLS ENRKQDKRFA FIRSDSGPTT SFESAACPGW FLCTAMEADQ PVSLTNMPDE GVMVTKFYFQ EDE

General References

Capper., et al. (2004) Clin. Exp. Immunol. 138:348 Roberge CJ., et al. (1994) Journal of Immunology. 152: 5485-94 Carter DB., et al. (1990) Nature. 344: 633-7

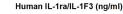
DATA

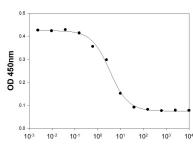
SDS-PAGE



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

Biological Activity





Human IL-1ra/IL-1F3 stimulates IFN-g secretion of the NK-92 human natural killer cells. The ED50 range ≤10 ng/ml.

