

Recombinant Mouse IL-1RA protein (His Tag)

Catalog Number: Eg0685

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse IL-1RA protein Arg8-Gln159 (Accession# Q542W1) with a His tag at the C-terminus.

GeneID:

16181

Accession:

Q542W1

Predicted Molecular Mass:

18.4 kDa

SDS-PAGE:

16-21 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

IL-1Ra, also known as IL-1F3, is a member of the interleukin 1 cytokine family. It is a receptor antagonist of IL-1, can competitively bind with IL-1R1 thereby blocking cell activation by the cytokine. IL-1Ra is secreted by various types of cells including immune cells, epithelial cells, and adipocytes, and is a natural inhibitor of the pro-inflammatory effect of IL1 β. 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, particularly in the acute phase of infection and inflammation. As a potent immune/inflammatory molecule, IL-1Ra is tightly associated with osteomyelitis, rheumatoid arthritis, traumatic brain injury (TBI) and stroke. Recently, an increasing number of studies proved that IL-1Ra is also actively involved in tumor progression, such as high expression IL-1Ra increased the risk of bladder cancer and non-cardia gastric carcinoma.

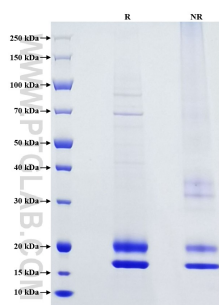
References

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2. Charles A. Dinarello, et al. (2020) Immunol Rev. 281(1):8-27.
3. Ivona Aksentijevich, et al. (2009) N Engl J Med. 360(23):2426-37.
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5. Gifone Aguiar Rocha, et al. (2005) Int J Cancer. 115(5):678-83.
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Synonyms

IL1rn, IL-1RN, IL 1ra, Interleukin-1

Selected Validation Data



Purity of Recombinant Mouse IL-1RA was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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