

Animal-Free Recombinant Human IL-1Ra
Catalog # PBG10510**Specification**

Animal-Free Recombinant Human IL-1Ra - Product Information**Animal-Free Recombinant Human IL-1Ra - Additional Information****Description**

Interleukin-1 receptor antagonist (IL-1RA) is a naturally occurring inflammatory inhibitor protein. It inhibits the activity of IL-1 α and IL-1 β by competitively blocking binding to their type I and type II receptors. IL-1Ra is produced by corneal epithelial cells, monocytes, neutrophils, macrophages, and fibroblasts. Therapeutically, IL-1Ra may help in the treatment of sepsis, cachexia, rheumatoid arthritis, chronic myelogenous leukemia, asthma, psoriasis, and inflammatory bowel disease. Recombinant human IL-1Ra is a 17.2 kDa protein consisting of 153 amino acid residues.

Biological Activity

Determined by its ability to inhibit the IL-1 α stimulation of murine D10S cell. The expected ED_{50} is 20-40 ng/ml in the presence of 50 pg/ml of IL-1 α .

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is <0.1 ng/ μg of protein ($<1\text{EU}/\mu\text{g}$).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

Precautions

Animal-Free Recombinant Human IL-1Ra is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free Recombinant Human IL-1Ra - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Animal-Free Recombinant Human IL-1Ra - Images