

Rev04
Update: Mar,01,2022

DATASHEET

IL-1 RA, Human(HEK 293-expressed)

Cat. No.: Z03169

Product Introduction

Species	Human
Protein Construction	IL-1 RA (Arg26-Glu177) Accession # P18510
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 0.1 μg/ml, measured in a neutralization assay using D10S cells in the presence of 50.0 pg/ml Human IL-1a.
Expression System	HEK 293
Apparent Molecular Weight	18~23 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target Background : IL-1 Receptor Antagonist, also known as IL-1RA, ICIL-1RA, IRAP and IL-1RN, is a member of the interleukin 1 cytokine family. It is expressed by monocytes, neutrophils, macrophages, epithelial cells and fibroblasts. IL-1RA inhibits the activity of both IL-1alpha and IL-1beta, and modulates a variety of IL-1 related immune and inflammatory responses. It inhibits the activity of IL-1 by binding to the receptor IL-1R1 and preventing its association with the coreceptor IL-1RAP for signaling. Clinical studies are being conducted to investigate the use of IL-1RA in the treatment of sepsis, rheumatoid arthritis and chronic myelogenous leukemia.

Synonyms : IL1RA; ICIL-1RA; IRAP; IL-1RN

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.