

IL-1Ra Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10001RA020	(20 µg)
Species: Human	RBG10001RA100	(100 µg)
Other names: IL-1Ra, ICIL-1RA, IRAP, IL-1RN, Interleukin-1Ra	RBG10001RA250	(250 µg)

Description

Interleukin-1 receptor antagonist (IL-1RA) is a naturally-occurring, inflammatory-inhibitor protein. It inhibits the activity of IL-1alpha and IL-1beta by competitively blocking their binding to 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.

Research topic

Diabetology - Other Relevant Products, Neural tissue markers

Amino Acid Sequence

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

Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to inhibit the IL-1alpha stimulation of murine D10S cell. The expected ED₅₀ is 20-40 ng/ml in the presence of 50 pg/ml of IL-1alpha.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1- 1.0mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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