Proteins

Inhibitors



Product Data Sheet

IL-1RA/IL-1RN Protein, Rat (C-His)

Cat. No.: HY-P73894A

Synonyms: Interleukin-1 receptor antagonist protein; IL-1RN; IL-1ra; Il1rn

Species: E. coli Source:

P25086 (H27-Q178) Accession:

Gene ID: 60582

Molecular Weight: Approximately 19.94 kDa

PROPERTIES

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HPAGKRPCKM QAFRIWDTNQ KTFYLRNNQL IAGYLQGPNT KLEEKIDMVP IDFRNVFLGI HGGKLCLSCV KSGDDTKLQL EEVNITDLNK NKEEDKRFTF IRSETGPTTS FESLACPGWF

LCTTLEADHP VSLTNTPKEP CTVTKFYFQE DQ

Biological Activity

Measured by its ability to inhibit proliferation in CTLL⊠2 mouse cytotoxic T cells in the presence of 50 pg/mL of rhIL-1 alpha. The ED₅₀ for this effect is 84.78 ng/mL, corresponding to a specific activity is 1.180×10^4 units/mg.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconsititution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The IL-1RA/IL-1RN mutant protein functions as a potent anti-inflammatory antagonist within the interleukin-1 family, specifically targeting proinflammatory cytokines like interleukin-1beta/IL1B and interleukin-1alpha/IL1A. Engineered to enhance its inhibitory capabilities, this mutant variant plays a critical role in safeguarding the host from immune dysregulation and preventing uncontrolled systemic inflammation triggered by IL1 in response to various innate stimulatory agents, including pathogens. By offering an optimized defense against IL1-mediated inflammatory responses, the mutant

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 $protein\ contributes\ significantly\ to\ maintaining\ immune\ balance\ and\ preventing\ excessive\ inflammation.$

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