

IL-1RN Protein, Horse (His)

Cat. No.:	HY-P71876A
Synonyms:	IL1RN; IL1RA Interleukin-1 receptor antagonist protein; IL-1RN; IL-1ra; IRAP; IL1 inhibitor
Species:	Equine
Source:	E. coli
Accession:	O18999 (H26-Q177)
Gene ID:	100034236
Molecular Weight:	Approximately 18 kDa

PROPERTIES

AA Sequence	<p> H P L G K R P C K M Q A F R I W D V N Q K T F Y M R N N Q L V A G Y L Q E S N T K L Q E K I D V V P I E P D A L F L G L H G R K L C L A C V K S G D E I R F Q L E A V N I T D L S K N K E E N K R F T F I R S N S G P T T S F E S A A C P G W F L C T A Q E A D R P V S L T N K P K E S F M V T K F Y L Q E D Q </p>
Biological Activity	Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells in the presence of 50 pg/mL of rhIL-1 alpha. The ED ₅₀ for this effect is 3.666 µg/mL, corresponding to a specific activity is 272.78 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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	IL-1RN protein is an anti-inflammatory antagonist that acts on the interleukin-1 family of proinflammatory cytokines, including interleukin-1beta/IL1B and interleukin-1alpha/IL1A. It serves as a protective agent against immune dysregulation and uncontrolled systemic inflammation induced by IL1, particularly in response to various innate stimulatory agents like pathogens. IL-1RN helps mitigate the inflammatory response and maintain immune homeostasis by counteracting the effects of IL1.
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Caution: Product has not been fully validated for medical applications. For research use only.

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