

Animal-Free IL-1RA/IL-1RN Protein, Mouse (His)

Cat. No.:	HY-P700197AF
Synonyms:	Il1rn; Il-1ra Interleukin-1 receptor antagonist protein; IL-1RN; IL-1ra; IRAP; IL1 inhibitor
Species:	Mouse
Source:	E. coli
Accession:	P25085 (R27-Q178)
Gene ID:	16181
Molecular Weight:	Approximately 18.27 kDa

PROPERTIES

AA Sequence	<pre> M R P S G K R P C K M Q A F R I W D T N Q K T F Y L R N N Q L I A G Y L Q G P N I K L E E K I D M V P I D L H S V F L G I H G G K L C L S C A K S G D D I K L Q L E E V N I T D L S K N K E E D K R F T F I R S E K G P T T S F E S A A C P G W F L C T T L E A D R P V S L T N T P E E P L I V T K F Y F Q E D Q </pre>
Biological Activity	Measure by its ability to inhibit IL-1 alpha -dependent proliferation in D10.G4.1 cells. The ED ₅₀ for this effect is <50 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	<p>The IL-1RN protein functions as an anti-inflammatory antagonist within the interleukin-1 family, specifically targeting proinflammatory cytokines like interleukin-1beta/IL1B and interleukin-1alpha/IL1A. Acting as a protective barrier, this protein plays a crucial role in preventing immune dysregulation and uncontrolled systemic inflammation induced by IL1, particularly in response to various innate stimulatory agents such as pathogens. Its regulatory activity contributes to maintaining a balanced immune response and safeguarding the host from the detrimental effects of excessive inflammation.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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