

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

Cat. No.:	HY-P700110AF
Synonyms:	ICIL-1RA; IRAP; IL-1RN
Species:	Human
Source:	E. coli
Accession:	P18510-1 (R26-E177)
Gene ID:	3557
Molecular Weight:	Approximately 18.07 kDa

### PROPERTIES

AA Sequence	<pre> M R P S G R K S S K   M Q A F R I W D V N   Q K T F Y L R N N Q   L V A G Y L Q G P N V N L E E K I D V V   P I E P H A L F L G   I H G G K M C L S C   V K S G D E T R L Q L E A V N I T D L S   E N R K Q D K R F A   F I R S D S G P T T   S F E S A A C P G W F L C T A M E A D Q   P V S L T N M P D E   G V M V T K F Y F Q   E D E           </pre>
Biological Activity	Measure by its ability to inhibit IL-1 alpha-dependent proliferation in D10.G4.1 cells. The ED <sub>50</sub> for this effect is <50 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4, trehalose.
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 <sub>2</sub> 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	The IL-1RA/IL-1RN protein stands as a potent anti-inflammatory antagonist within the interleukin-1 family, specifically targeting proinflammatory cytokines like interleukin-1beta/IL1B and interleukin-1alpha/IL1A. Serving as a safeguard against immune dysregulation, this protein is instrumental in preventing uncontrolled systemic inflammation triggered by IL1 in response to various innate stimulatory agents, including pathogens. Its nature underscores its utility in research and therapeutic applications, providing a reliable and ethical tool for studying and mitigating inflammatory processes without reliance on animal-derived materials.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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