

IL-1RA/IL-1RN Protein, Human

Cat. No.:	HY-P7029
Synonyms:	rHuIL-1RA; IL-1RN; IRAP
Species:	Human
Source:	E. coli
Accession:	P18510 (R26-E177)
Gene ID:	3557
Molecular Weight:	Approximately 17,258 Da

PROPERTIES

AA Sequence	<p> 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 </p>
Biological Activity	The ED ₅₀ is <0.5 ng/mL as measured by D10S cells, corresponding to a specific activity of 2.0 × 10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 50 mM Tris-HCl, pH 7.5, 200 mM NaCl buffer.
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.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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 production of Human Interleukin-1 Receptor Antagonist Protein (IL-1ra) is stimulated by many substances including adherent IgG, other cytokines, and bacterial or viral components. Endogenous IL-1Ra is produced in numerous experimental animal models of disease as well as in human autoimmune and chronic inflammatory diseases. Treatment of human diseases with recombinant human IL-1Ra shows an absence of benefit in sepsis syndrome^[1]. IL-1 receptor antagonist (IL-1ra) has provided a tool for blocking IL-1 activity in vivo, leading to a detailed understanding of the role of this cytokine in the inflammatory response^[2].</p>
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REFERENCES

- [1]. Arend WP, et al. Interleukin-1 receptor antagonist: role in biology. *Annu Rev Immunol.* 1998;16:27-55.
- [2]. Nikolic-Paterson DJ, et al. Interleukin-1 receptor antagonism. *Semin Nephrol.* 1996 Nov;16(6):583-90.
- [3]. Arend WP, et al. Interleukin 1 receptor antagonist. A new member of the interleukin 1 family. *J Clin Invest.* 1991 Nov;88(5):1445-51.
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Caution: Product has not been fully validated for medical applications. For research use only.

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