

IL-18 Protein, Rat

Cat. No.:	HY-P7210
Synonyms:	rRtIL-18; Interferon-gamma-inducing factor; IL-1 gamma
Species:	Rat
Source:	E. coli
Accession:	P97636 (H37-S194)
Gene ID:	29197
Molecular Weight:	Approximately 18.4 kDa

PROPERTIES

AA Sequence	<p>M H F G R L H C T T A V I R S I N D Q V L F V D K R N P P V F E D M P D I D R T</p> <p>A N E S Q T R L I I Y M Y K D S E V R G L A V T L S V K D G R M S T L S C K N K</p> <p>I I S F E E M N P P E N I D D I K S D L I F F Q K R V P G H N K M E F E S S L Y</p> <p>E G H F L A C Q K E D D A F K L V L K R K D E N G D K S V M F T L T N L H Q S</p>
Biological Activity	The ED ₅₀ is <2 µg/mL as measured by KG-1 cells, corresponding to a specific activity of >500 units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against 50 mM Tris, 50 mM NaCl, pH 8.0.
Endotoxin Level	<0.2 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	Interleukin (IL)-18 is a potent stimulator of immunity and augments the severity of type II collagen-induced arthritis (CIA) in rats and mice by enhancing T helper 1 (Th1) cell activation, which increases the production of proinflammatory cytokines and arthritogenic antibodies. IL-18 possesses immunoregulatory activities, including the stimulation of interferon (IFN)-g production by T helper 1 (Th1) and natural killer cells, as well as other activities that promote inflammation ^[1] .
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REFERENCES

[1]. Ye XJ, et al. The effects of interleukin-18 on rat articular chondrocytes: a study of mRNA expression and protein synthesis of proinflammatory substances. Clin Exp Immunol. 2007 Sep;149(3):553-60.

Caution: Product has not been fully validated for medical applications. For research use only.

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