

IL-5 Protein, Rabbit (HEK293, His)

Cat. No.:	HY-P78608
Synonyms:	IL-5; TRF; IL5; Interleukin-5
Species:	Rabbit
Source:	HEK293
Accession:	G1SL79-1 (M20-S134)
Gene ID:	100358075
Molecular Weight:	15-18 kDa

PROPERTIES

AA Sequence	<p>M A T E I R M S T V V K E T L T L L S T Y Q S L L I G N E T L M I P V P V H K N</p> <p>H H L C I E E T F R G V D T L K A Q I V Q G E A M D N L F Q N L Y L I K K Y I D</p> <p>L Q K K K C G E E R R G V K H F L D Y L Q E F L G V I N T E W T M E S</p>
Biological Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED ₅₀ for this effect is 0.276 ng/mL, corresponding to a specific activity is 3.6×10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 μm filtered solution of PBS, 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	<p>IL5 Protein is a homodimeric cytokine primarily expressed by T-lymphocytes and NK cells. It plays a crucial role in the survival, differentiation, and chemotaxis of eosinophils. Additionally, IL5 Protein acts on both activated and resting B-cells, stimulating immunoglobulin production, growth, and differentiation. Its biological effects are mediated through a receptor composed of IL5RA subunit and the cytokine receptor common subunit beta/CSF2RB, triggering the activation of various kinases such as LYN, SYK, and JAK2. This activation, in turn, propagates signals through the RAS-MAPK and JAK-STAT5 pathways, contributing to IL5 Protein's functions. IL5 Protein exists as a homodimer linked by disulfide bonds.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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