

IL-5 Protein, Rat

Cat. No.:	HY-P7102
Synonyms:	rRtIL-5; EDF; BCDFII; TRF
Species:	Rat
Source:	E. coli
Accession:	Q08125 (M20-V132)
Gene ID:	24497
Molecular Weight:	Approximately 26.0 kDa

PROPERTIES

AA Sequence	<p> M E I P M S T V V K E T L I Q L S T H R A L L T S N E T M R L P V P T H K N H Q L C I G E I F Q G L D I L K N Q T V R G G T V E I L F Q N L S L I K K Y I D G Q K E K C G E E R R K T R H F L D Y L Q E F L G V M S T E W A M E V </p>
Biological Activity	The ED ₅₀ is <0.4 ng/mL as measured by TF-1 cells, corresponding to a specific activity of >2.5 × 10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM Tris, pH 8.5.
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	<p>Interleukin-5 (IL-5) is a T-cell derived cytokine which stimulates eosinophil production and activation in human, mice and sheep. IL-5 is active as a growth factor for mouse but not human B cells. The role of IL-5 on ruminant B cells has not been clearly defined. By hybridisation with human IL-5 cDNA, the ovine IL-5 gene is isolated from a liver genomic library. The IL-5 cDNA is obtained by reverse-transcriptase PCR using primers designed from the 5' and 3' coding sequence derived from the ovine IL-5 gene. The sequences of the cDNA shows that there is 79% and 73% nucleotide homology with the human and mouse sequences. The ovine IL-5 cDNA encodes a protein of 132 amino acids and the level of amino acid homology with human and mouse IL-5 is 64% and 56%, respectively. Two cysteine residues are conserved in ovine, human and mouse IL-5.</p>
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There are two potential N-linked glycoylation sites in ovine IL-5^[1].

REFERENCES

[1]. Seow HF, et al. Cloning and sequencing of an ovine interleukin-5 cDNA. DNA Seq. 1996;6(6):331-5.

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

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