

IL-5 Protein, Human (CHO)

Cat. No.:	HY-P7043A
Synonyms:	rHuIL-5; EDF; BCDFFI; TRF
Species:	Human
Source:	CHO
Accession:	P05113 (I20-S134)
Gene ID:	3567
Molecular Weight:	29-35 kDa

PROPERTIES

AA Sequence	<p>I P T E I P T S A L V K E T L A L L S T H R T L L I A N E T L R I P V P V H K N</p> <p>H Q L C T E E I F Q G I G T L E S Q T V Q G G T V E R L F K N L S L I K K Y I D</p> <p>G Q K K K C G E E R R R V N Q F L D Y L Q E F L G V M N T E W I I E S</p>
Biological Activity	The ED ₅₀ is <1 ng/mL as measured by TF-1 cells, corresponding to a specific activity of >1 × 10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
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 or PBS.
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>Recombinant Human Interleukin-5 (rhIL-5) is a powerful and selective stimulator of human eosinophil function. IL-5 is thus the first hemopoietic factor whose elaboration in vivo can explain the selective eosinophilia and eosinophil activation seen in disease^[1]. Recombinant human interleukin-5 (rhIL-5), in either liquid or semi- solid cultures, selectively induced eosinophil production from normal human bone marrow, with no activity on other cell lineages. Human interleukin-5 (IL-5) regulates the production of eosinophils in human bone marrowcultures: comparison and interaction with IL-1, IL-3, IL-6, and granulocyte-macrophage colony stimulating factor (GMCSF)^[2].</p>
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REFERENCES

- [1]. Lopez AF, et al. Recombinant human interleukin 5 is a selective activator of human eosinophil function. J Exp Med. 1988 Jan 1;167(1):219-24.
- [2]. Clutterbuck EJ, et al. Human interleukin-5 (IL-5) regulates the production of eosinophils in human bone marrowcultures: comparison and interaction with IL-1, IL-3, IL-6, and GMCSF. Blood. 1989 May 1;73(6):1504-12.
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Caution: Product has not been fully validated for medical applications. For research use only.

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