

Animal-Free IL-5 Protein, Human (His)

Cat. No.:	HY-P700131AF
Synonyms:	Interleukin-5; B-cell differentiation factor I; Eosinophil differentiation factor; T-cell replacing factor; TRF; IL5
Species:	Human
Source:	E. coli
Accession:	P05113 (I20-S134)
Gene ID:	3567
Molecular Weight:	Approximately 14.09 kDa

PROPERTIES

AA Sequence	<p>M 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</p> <p>N 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</p> <p>D 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	Measure by its ability to induce TF-1 cells proliferation. The ED ₅₀ for this effect is <0.3 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the 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 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>IL-5 Protein is a homodimeric cytokine predominantly expressed by T-lymphocytes and NK cells, and it plays a crucial role in the survival, differentiation, and chemotaxis of eosinophils. Additionally, IL-5 Protein acts on both activated and resting B-cells, inducing 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, leading to the activation of various kinases such as LYN, SYK, and JAK2. These activated kinases propagate signals through the RAS-MAPK and JAK-STAT5 pathways. IL-5 Protein exists as a disulfide-linked homodimer and interacts with IL5RA and CSF2RB subunits.</p>
-------------------	--

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA