

# Recombinant Human IL-5 protein (His Tag)

Catalog Number: Eg0380

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;1.0 EU/ μg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human IL-5 protein Ile20-Ser134 (Accession# P05113-1) with a His tag at the C-terminus.</p> <p><b>GeneID:</b> 3567</p> <p><b>Accession:</b> P05113-1</p> <p><b>Predicted Molecular Mass:</b> 17.5 kDa</p> <p><b>SDS-PAGE:</b></p> <p><b>Formulation:</b> Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>IL-5 (interleukin-5) is a key cytokine, secreted mainly by Th2 cells and mast cells, that plays an important role in the development, differentiation and activation of eosinophils. IL-5 promotes eosinophil maturation, survival and degranulation through signaling mediated by its receptor (IL-5R), thus playing a role in allergic reactions and inflammatory processes. In allergic diseases (e.g., asthma), elevated levels of IL-5 are associated with a large increase in eosinophils, making IL-5 a potential target for the treatment of these diseases. For example, anti-IL-5 monoclonal antibodies (e.g., mepolizumab and rilizumab) have been approved for the treatment of severe eosinophilic asthma. In addition, IL-5 plays a role in other eosinophil-associated diseases (e.g., nasal polyps) and may be involved in the regulation of the tumor microenvironment.</p>		
References	<div>1. Jackson, David J et al. Allergy vol. 79,11 (2024): 2943-2952.</div> <div>2. Douga</div>		
Synonyms	IL5, B-cell differentiation factor I, IL 5, Interleukin 5, Interleukin-5		

## Selected Validation Data

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For technical support and original validation data for this product please contact

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