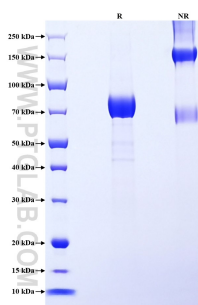


# Recombinant Human IL-3RA/CD123 protein (rFc Tag)

Catalog Number: Eg2013

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human IL-3RA protein Thr19-Arg305 (Accession# P26951-1) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b> 3563</p> <p><b>Accession:</b> P26951-1</p> <p><b>Predicted Molecular Mass:</b> 59.4 kDa</p> <p><b>SDS-PAGE:</b> 68-85 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 µm filtered solution in 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>Interleukin-3 receptor subunit alpha (IL-3R alpha), also known as CD123, belongs to the cytokine receptor family. It is a glycoprotein containing an extracellular domain, involving a predicted Ig-like domain, two FnIII domains, a transmembrane domain and an intracellular domain. IL-3R alpha is expressed on hematopoietic progenitor cells, plasmacytoid dendritic cells, basophils, monocytes, some B cells, and in a variety of hematologic malignancies. IL-3 initially binds to IL-3R alpha and subsequently recruits the beta chain (CD131) to form the high-affinity receptor, resulting in the activation of a series of signaling pathways including the JAK/STAT, Ras-MAPK, and phosphatidylinositol 3-kinase pathways (PMID: 29296749). IL-3R signaling regulates the proliferation, survival, and differentiation of hematopoietic cells.</p>		
References	<ol style="list-style-type: none"><li>1. S Huang, et al. (1999). Stem Cells. 17(5):265-72.</li><li>2. Ugo Testa, et al. (2014). Biomark Res. 2(1):4.</li><li>3. Nicole L Wittwer, et al. (2017). Blood Adv. 1(15):1067-1079.</li><li>4. Adam J Lamble, et al. (2022). J Clin Oncol. 40(3):252-261.</li></ol>		
Synonyms	IL3RA, CD123, hIL 3Ra, IL 3 receptor subunit alpha, IL 3R alpha		

## Selected Validation Data



Purity of Recombinant Human IL-3RA was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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

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