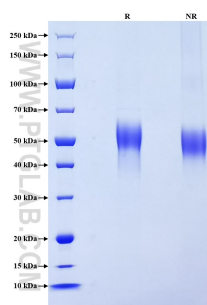


Recombinant Human IL-2RG protein (His Tag)

Catalog Number: Eg1705

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Human IL-2RG protein Leu23-Asn254 (Accession# P31785-1) with a His tag at the C-terminus.</p> <p>GeneID: 3561</p> <p>Accession: P31785-1</p> <p>Predicted Molecular Mass: 28.5 kDa</p> <p>SDS-PAGE: 46-60 kDa, reducing (R) conditions</p> <p>Formulation: 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>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: 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>The interleukin-2 receptor (IL-2R) is a heterotrimeric receptor consisting of three subunits, alpha (IL-2RA), beta (IL-2RB), and gamma (IL-2RG). IL-2RG, also known as CD132, is an important signaling component of many interleukin receptors, including those of interleukin -2, -4, -7 and -21, and is thus referred to as the common gamma chain. Mutations in the gene of IL-2RG cause X-linked severe combined immunodeficiency (XSCID), as well as X-linked combined immunodeficiency (XCID), a less severe immunodeficiency disorder. IL-2RG plays a pivotal role as a common subunit receptor in the IL-2 family cytokines and activates the JAK-STAT pathway.</p>		
References	<ol style="list-style-type: none"> 1.Zheng Y, et al. (2023). Asian J Surg. 46(11):5359-5361. 2.Le Floc'h A, et al. (2023). Sci Transl Med. 15(678):eabo0205. 3.Nourizadeh M, et al. (2015). Iran J Allergy Asthma Immunol. 14(4):457-61. 4.Mahdavi FS, et al. (2021). Allergy Asthma Clin Immunol. 17(1):107. 5.Gharib E, et al. (2024). J Transl Med. 22(1):439. 		
Synonyms	IL2RG, CD132, gammaC, IL 2 receptor subunit gamma, IL 2R subunit gamma		

Selected Validation Data



Purity of Recombinant Human IL-2RG 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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