

For Research Use Only

Recombinant Human IL-7 protein (His Tag)



Catalog Number: Eg0830

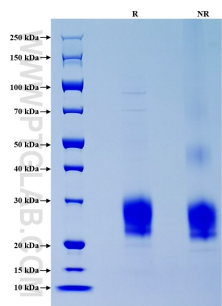
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <1.0 EU/μg protein, LAL method</p> <p>Source: HEK293-derived Human IL-7 protein Asp26-His177 (Accession# P13232-1) with a His tag at the C-terminus.</p> <p>GeneID: 3574</p> <p>Accession: P13232-1</p> <p>Predicted Molecular Mass: 21.8 kDa</p> <p>SDS-PAGE:</p> <p>Formulation: 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>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>Interleukin-7 (IL-7) is a cytokine involved in B and T cell development. It plays an active role in the development, survival, maintaining and restoring homeostasis of mature T lymphocytes and is a key regulator of the commitment, survival, proliferation and maturation of B cells during development. Furthermore, IL-7 can improve the antiviral function and expansion of natural killer (NK) cells and regulate the development and differentiation of dendritic cells. IL-7 has also been reported as a regulator of the development of central nervous system and myogenesis and skeletal muscle cell migration.</p>		
References	<ol style="list-style-type: none">1. Zhao, Ji-Jun et al. Journal of cellular physiology vol. 233,9 (2018): 7182-7194.2. Teng, Dengke et al. Cytokine vol. 118 (2019): 115-123.3. Cai, Shijiao et al. Cell death & disease vol. 9,3 (2018): 273.		
Synonyms	IL7, IL 7, interleukin 7, Interleukin-7		

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

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Selected Validation Data



Purity of Recombinant Human IL-7 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.