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# Recombinant Rat gp130/IL6ST protein (His Tag)



Catalog Number: Eg0857

Basic Information	<b>Species:</b> Rat	<b>Purity:</b> >90 %, SDS-PAGE	<b>Tag:</b> His Tag
Technical Specifications	<b>Purity:</b> >90 %, SDS-PAGE <b>Endotoxin Level:</b> <1.0 EU/ µg protein, LAL method <b>Source:</b> HEK293-derived Rat gp130/IL6ST protein Gln23-Glu618 (Accession# H9BFG4) with a His tag at the C-terminus. <b>GeneID:</b> 25205 <b>Accession:</b> H9BFG4 <b>Predicted Molecular Mass:</b> 68.0 kDa <b>SDS-PAGE:</b> <b>Formulation:</b> Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	<b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <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> <b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	GP130, also known as IL6ST, is a transmembrane protein that serves as a shared signal-transducing subunit for a variety of cytokines, including interleukin-6 (IL-6), IL-11, IL-27, leukemia inhibitory factor (LIF), ciliary neurotrophic factor (CNTF), oncostatin M (OSM), cardiotrophin-1 (CT-1), cardiotrophin-like cytokine (CLC)/CLC factor 1 (CLCF-1), and neuropoietin. This protein is highly conserved among vertebrates and plays a crucial role in mediating interactions between a wide range of immune and non-immune cells. GP130 was originally discovered in 1978 and was successfully cloned and expressed in 1990, leading to a deeper understanding of cytokine signaling pathways.		
References	<ol style="list-style-type: none"><li>1. Osman, Essam Eldin A, and Nouri Neamati. Pharmacological reviews vol. 76,6 (2024): 1399-1443.</li><li>2. Xu, Shili, and Nouri Neamati. Expert opinion on therapeutic targets vol. 17,11 (2013): 1303-28.</li><li>3. Andersson, L C et al. Proceedings of the National Academy of Sciences of the United States of America vol. 75,7 (</li></ol>		
Synonyms	CD130, Glycoprotein 130, gp130, IL-6 receptor subunit beta, IL-6R subunit beta		

## Selected Validation Data

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

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