

For Research Use Only

Recombinant Rat gp130/IL6ST protein (hFc Tag)



Catalog Number: Eg0843

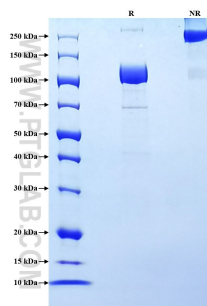
Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: hFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Rat gp130 protein Gln23-Glu618 (Accession# NP_001008725.2) with a human IgG1 Fc tag at the C-terminus. GeneID: 25205 Accession: NP_001008725.2 Predicted Molecular Mass: 93.7 kDa SDS-PAGE: 100-130 kDa, reducing (R) conditions 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.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: 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	Glycoprotein 130 (gp130, also known as IL6ST, CD130 or IL6-beta) is a ubiquitously expressed, signal-transducing receptor that serves as the signal transduction unit for IL-6 family of cytokines, including IL-6, IL-11, IL-27, leukemia inhibitory factor (LIF), OSM, ciliary neurotrophic factor (CNTF), cardiotrophin 1 (CT-1), and cardiotrophin-like cytokine (CLC). These cytokines signal through the gp130/Jak/STAT pathway. Binding of IL-6 to IL-6R induces gp130 homodimerization and formation of a high-affinity receptor complex, which activates Jaks. That causes phosphorylation of gp130 tyrosine residues which in turn activates STAT3. gp130 is a type I transmembrane protein, and can also exist as a soluble form (sgp130). sgp130 binds to sIL-6R/IL-6 complexes and prevents their interactions with membrane-anchored gp130 on target cells.		
References	1. T Taga, et al. (1997) Review Annu Rev Immunol. 15:797-819. 2. F A Montero-Julian, et al. (1997) Clin Cancer Res. 3(8):1443-51. 3. P C Heinrich, et al. (1998) Biochem J. 334 (Pt 2)(Pt 2):297-314. 4. J S Silver, et al. (2010) Review J Leukoc Biol. 88(6):1145-56.		
Synonyms	gp130/IL6ST, CD130, Glycoprotein 130, gp130, IL-6 receptor subunit beta		

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

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Selected Validation Data



Purity of Recombinant Rat gp130 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.