

For Research Use Only

Recombinant Rat CD126/IL-6R alpha protein (rFc Tag)

Catalog Number: Eg3349



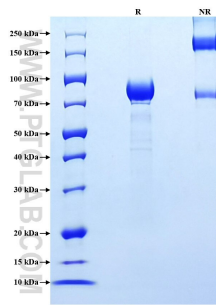
Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Rat IL-6R alpha protein Leu20-Pro364 (Accession# NP_058716.2) with a rabbit IgG Fc tag at the C-terminus. GeneID: 24499 Accession: NP_058716.2 Predicted Molecular Mass: 64.3 kDa SDS-PAGE: 70-95 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	Interleukin-6 (IL-6) is a pleiotropic cytokine produced by various cells during infection, trauma, and immunological challenges. IL-6 acts via a receptor complex consisting of two distinct membrane-bound glycoproteins, an 80-kDa IL-6 receptor α (IL-6Rα) subunit (CD126, gp80) and a 130-kDa signal-transducing element (gp130, CD130). After binding of IL-6 to membrane-bound IL-6R alpha, the complex of IL-6 and IL-6Rα associates with gp130, thus activating the receptor. Expression of gp130 is found in almost all organs while IL-6R alpha is predominantly confined to hepatocytes and leukocyte subpopulations (monocytes, neutrophils, T cells, and B cells). IL-6Rα is produced by proteolytic shedding and alternative splicing to produce soluble IL-6Rα.		
References	1. Tilg H. et al. (1994). Blood. 1;83(1):113-8. 2. Heinrich P.C. et al. (1998). Biochem J. 1;334 (Pt 2):297-314. 3. Jones S.A. et al. (2001). FASEB J. 15(1):43-58. 4. Horiuchi S. et al. (1994). Eur J Immunol. 24(8):1945-8. 5. Müllberg J. et al. (1993). Eur J Immunol. 23(2):473-80. 6. Rose-John S. et al. (2012). Int J Biol Sci. 8(9):1237-47.		
Synonyms	CD126, CD126/IL-6R alpha, IL-6R alpha, IL-6R 1, IL6r		

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

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Selected Validation Data



Purity of Recombinant Rat IL-6R alpha 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.