

For Research Use Only

Recombinant Rat IL-12A protein (rFc Tag)



Catalog Number: Eg3823

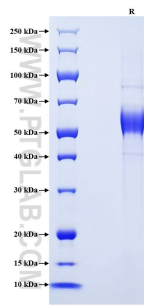
Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Rat IL-12A protein Arg23-Ser215 (Accession# Q9R103) with a rabbit IgG Fc tag at the C-terminus. GeneID: 84405 Accession: Q9R103 Predicted Molecular Mass: 48.0 kDa SDS-PAGE: 50-60 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-12A (IL-12A), also known as p35, is a protein that plays a crucial role in the immune system. It is a subunit of the cytokine IL-12, which is a heterodimeric protein composed of two disulfide-linked subunits: IL-12A (p35) and IL-12B (p40). IL-12A is encoded by the IL12A gene located on chromosome 3 and is expressed in various cell types, including professional antigen-presenting cells such as B-cells, dendritic cells, macrophages, and granulocytes. The primary function of IL-12A is to regulate T-cell and natural killer-cell responses. It is particularly important for the production of interferon-gamma (IFN-gamma), the differentiation of T-helper 1 (Th1) cells, and serves as a link between innate resistance and adaptive immunity.		
References	1. Wolf SF. et al. (1991) J Immunol. 146(9):3074-81. 2. Gubler U. et al. (1991) Proc Natl Acad Sci U S A. 88(10):4143-7. 3. Ullrich KA. et al. (2020) EXCLI J. 19:1563-1589.		
Synonyms	CLMF p35, Cytotoxic lymphocyte maturation factor 35 kDa subunit, IL-12 subunit p35, Il12a, Interleukin-12 subunit alpha		

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

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Selected Validation Data



Purity of Recombinant Rat IL-12A was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.