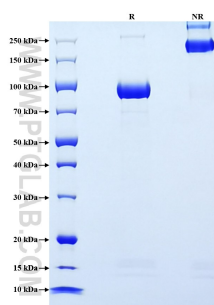


Recombinant Human IL-12 (linked heterodimer) protein (hFc Tag)

Catalog Number: Eg0606

Basic Information	Species: Human	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 Human IL-12B Ile23-Ser328 (Accession# P29460) +linker+IL-12A Arg23-Ser219 (Accession# P29459) with a human IgG1 Fc tag at the C-terminus. GeneID: 3593(IL-12B),3592(IL-12A) Accession: P29460 (IL-12B), P29459 (IL-12A) Predicted Molecular Mass: 85.3 kDa SDS-PAGE: 85-100 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-12 (IL-12) is a heterodimeric pro-inflammatory cytokine that induces the production of interferon-gamma (IFN-gamma), favours the differentiation of T helper 1 (T(H)1) cells and forms a link between innate resistance and adaptive immunity. It consists of two subunits, p35 and p40, which are encoded by IL12A and IL12B, respectively. Furthermore, IL-12 binds to the IL-12 receptor, which is a heterodimeric receptor formed by the IL-12R- β 1 and IL-12R- β 2 subunits.		
References	1.Trinchieri, Giorgio. (2003) Nat Rev Immunol3(2):133-146. 2.Picard, Capucine et al. (2002) Am J Hum Genet.70(2):336-348. 3.Lin, Eugene et al. (2019) Front Neurol.10:1065.		
Synonyms	IL12, IL12(IL12B+IL12A), IL12A, IL12B, IL-12B/IL-12A		

Selected Validation Data



Purity of Recombinant Human IL-12 (linked heterodimer) 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.

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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