

For Research Use Only

Recombinant Human IL-23 protein (His Tag)



Catalog Number: Eg1304

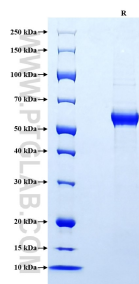
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Human IL-12B Ile23-Ser328 (Accession# P29460)+ linker + IL-23A Arg20-Pro189 (Accession# Q9NPF7) with a His tag at the C-terminus. GeneID: 3593(IL-12B), 51561(IL-23A) Accession: P29460(IL-12B), Q9NPF7(IL-23A) Predicted Molecular Mass: 58.4 kDa SDS-PAGE: 52-60 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	IL-12 and IL-23 are heterodimeric cytokines with a common p40 subunit (PMID: 11114383). IL-12 is composed of the IL-12 p40 subunit linked to the IL-12 p35 subunit, and the heterodimer signals through the IL-12 receptor (IL-12R), which comprises the IL-12Rβ1 and IL-12Rβ2 subunits. IL-23 is composed of the IL-23 p19 subunit and the IL-12 p40 (IL-12/23p40) subunit, which signals through IL-23R and IL-12Rβ1 (PMID: 11114383; 26121196). The importance of IL-23 has been confirmed by clinical data, as monoclonal antibodies (MABs) targeting the p40 subunit (shared by IL-23 and IL-12), as well as p19 (specific for IL-23) were effective in therapy for psoriasis and psoriatic arthritis (PMID: 25754330; 18486740).		
References	1.Oppmann, B. et al.(2000) Immunity. 13(5):715-25. 2.Teng, MW.et al.(2015) Nat Med. 21(7):719-29. 3.Kopp, T. et al.(2015) Nature. 521(7551):222-6. 4.Papp, KA. et al.(2008) Lancet. 371(9625):1675-84.		
Synonyms			

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

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Selected Validation Data



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Purity of Recombinant Human IL-23 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.