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# Recombinant Human IL-23 Protein(Fc Tag)

Catalog Number: PDMH100317

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### Description

Species Human

Source HEK293 Cells-derived Human IL-23 proteins Arg20-Pro189, with an C-terminal Fc

 Calculated MW
 43.6 kDa

 Observed MW
 45 kDa

 Accession
 Q9NPF7

Bio-activity Not validated for activity

#### **Properties**

**Purity** > 90% as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU/mg of the protein as determined by the LAL method

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -

80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

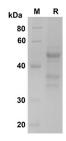
**Formulation** Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis.

### Data



SDS-PAGE analysis of Human IL-23 proteins , 2µg/lane of Recombinant Human IL-23 proteins was resolved with SDS-PAGE under reducing conditions , showing bands at 45 KD

## **Background**

IL-23 , which is mainly secreted by antigen-presenting cells , is a member of the IL-12 family , which includes IL-12 , I L-27 , and IL-35. IL-23 is a heterodimeric cytokine , comprised of a unique p19 subunit and p4 subunit , the latter of which is shared with IL-12. The receptor for IL-23 consists of IL-23R and IL-12R $\beta$ 1 , the latter of which is also characteristic of IL-12. IL-23 is essential for Th17 differentiation , expansion , and survival by binding to its receptor , thereby activating the signaling pathway. Many studies revealed that the IL-23/Th17 pathway is implicated in the pathophysiology of various autoimmune diseases , such as autoimmune arthritis , primary biliary cirrhosis , and inflammatory bowel disease.

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