

## IL-23R Protein, Human (HEK293, mFc)

Cat. No.:	HY-P78470
Synonyms:	IBD17; IL-23 R; IL-23 receptor
Species:	Human
Source:	HEK293
Accession:	Q5VWK5 (G24-G355)
Gene ID:	149233
Molecular Weight:	80-115 kDa

### PROPERTIES

Biological Activity	<p>1. Immobilized Human IL-23 alpha&amp;Mouse IL-12, His Tag at 5 µg/mL (100 µl/Well) on the plate. Dose response curve for Human IL-23R, mFc Tag with the EC<sub>50</sub> of 0.33 µg/mL determined by ELISA.</p> <p>2. Immobilized Biotinylated Human IL-23 alpha&amp;IL-12 beta, His Tag at 2 µg/mL (100 µl/well) on the streptavidin precoated plate (5 µg/mL). Dose response curve for Human IL-23R, mFc Tag with the EC<sub>50</sub> of 11.1 ng/mL determined by ELISA.</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>The IL-23R protein plays a critical role in immune response as it forms the interleukin-23 receptor by associating with IL12RB1. It binds to IL23 and triggers the activation of T-cells, NK cells, and potentially certain macrophage/myeloid cells through the Jak-Stat signaling cascade. IL23 is involved in both innate and adaptive immunity, and it likely contributes to the acute response to infection in peripheral tissues. Moreover, IL23 is implicated in autoimmune inflammatory diseases and has been shown to be important in tumorigenesis. When IL12RB1 is present, IL-23R forms a heterodimer, which acts as the IL-23 receptor. It interacts with JAK2 and, in the presence of IL23, activates STAT3.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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