

## IL-23R Protein, Human (353a.a, HEK293, His)

Cat. No.:	HY-P73886
Synonyms:	Interleukin 23 receptor; IL 23R; IL-23 receptor; IL-23R
Species:	Human
Source:	HEK293
Accession:	Q5VWK5 (M1-D353)
Gene ID:	149233
Molecular Weight:	Approximately 39.3 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants 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 (with carrier protein). 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	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.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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