

## IL-23R Protein, Mouse (HEK293, His)

Cat. No.:	HY-P700746
Synonyms:	IBD17; IL-23 R; IL-23 receptor; IL23r; Interleukin-23 receptor
Species:	Mouse
Source:	HEK293
Accession:	Q8K4B4 (G24-G374)
Gene ID:	209590
Molecular Weight:	60-85 kDa

### PROPERTIES

Biological Activity	Mouse IL-23R, His Tag immobilized on CM5 Chip can bind Mouse IL-23 alpha&IL-12 beta, His Tag with an affinity constant of 6.91 nM as determined in SPR assay (Biacore T200).
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% 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 (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 forms the interleukin-23 receptor in association with IL12RB1. Acting as a binding site for IL23, this receptor mediates stimulation in T-cells, NK cells, and possibly certain macrophage/myeloid cells, likely through the activation of the Jak-Stat signaling cascade. IL-23R plays a crucial role in both innate and adaptive immunity and may contribute to the acute response to infection in peripheral tissues. Additionally, IL-23R has been implicated in autoimmune inflammatory diseases and is thought to be significant in tumorigenesis. Operating as a heterodimer with IL12RB1, the IL-23R complex, when exposed to IL23, forms the functional IL23 receptor. Furthermore, IL-23R interacts with JAK2 and, in the presence of IL23, associates with STAT3, contributing to downstream signaling processes (By similarity).
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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