

OSMR beta Protein, Human (712a.a, HEK293, His)

Cat. No.:	HY-P72500
Synonyms:	Oncostatin-M-specific receptor subunit beta; IL-31R-beta; IL-31RB; OSMR; OSMRB
Species:	Human
Source:	HEK293
Accession:	Q99650 (E28-S739)
Gene ID:	9180
Molecular Weight:	Approximately 132 kDa

PROPERTIES

AA Sequence

ERLPLTPVSL	KVSTNSTRQS	LHLQWTVHNL	PYHQELKMF
QIQISRIETS	NVIWVGNYST	TVKWNQVLHW	SWESELPLEK
ATHFVRIKSL	VDDAKFPEPN	FWSNWSWEE	VSVQDSTGQD
ILFVFPKDKL	VEEGTNVTIC	YVSRNIQNNV	SCYLEGKQIH
GEQLDPHVTA	FNLNSVPPFIR	NKGTNIYCEA	SQGNVSEGMK
GIVLVFSKVL	EEPKDFSCET	EDFKTLHCTW	DPGTD TALGW
SKQPSQSYTL	FESFSGEKKL	CTHKNWCNWQ	ITQDSQETYN
FTLIAENYLR	KRSVNILFNL	THR VYLMNPF	SVNFENVNAT
NAIMTWKVHS	IRNNFTYLCQ	IELHGEGKMM	QYNVSIKVNG
EYFLSELEPA	TEYMARVRC A	DASHFWKWSE	WSGQNFTTLE
AAPSEAPDVW	RIVSLEPGNH	TVT LFWKPLS	KLHANGKILF
YNVVVENLDK	PSSSELHSIP	APANSTKLIL	DRCSYQICVI
ANNSVGASPA	SVIVISADPE	NKEVEEERIA	GTEGGFSLSW
KPQPGDVIGY	VVDWCDHTQD	VLGDFQWKNV	GPNTTSTVIS
TDAFRPGVRY	DFRIYGLSTK	RIAC LLEKKT	GYSQELAPSD
NPHV LVDTLT	SHSFTLSWKD	YSTESQPGFI	QGYHVYLKSK
ARQCHPRFEK	AVLSDGSECC	KYKIDNPEEK	ALIVDNLKPE
SFYEFFITPF	TSAGEGPSAT	FTKVTT PDEH	SS

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

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 ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

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 by forming the interleukin-23 receptor through its association with IL12RB1. This receptor binds to IL23 and triggers the activation of T-cells, NK cells, and potentially certain macrophage/myeloid cells via the Jak-Stat signaling cascade. IL23 is involved in both innate and adaptive immunity and likely contributes to the acute response to infection in peripheral tissues. Additionally, 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 that acts as the IL-23 receptor and interacts with JAK2 to activate STAT3.

Caution: Product has not been fully validated for medical applications. For research use only.

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