

## CCR1 Protein, Mouse (Cell-Free, His)

<b>Cat. No.:</b>	HY-P702232
<b>Synonyms:</b>	C-C chemokine receptor type 1; Macrophage inflammatory protein 1-alpha receptor; MIP-1alpha-R; RANTES-R
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli Cell-free
<b>Accession:</b>	P51675 (M1-F355)
<b>Gene ID:</b>	12768
<b>Molecular Weight:</b>	43.7 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> MEISDFTEAY   PTTTEFDYGD   STPCQKTAVR   AFGAGLLPPL YSLVFIIGVV   GNVLVILVLM   QHRRLQSMTS   IYLFNLAVSD LVFLFTLPFW   IDYKCLKDDWI   FGDAMCKLLS   GFYYLGLYSE IFFIILLTID   RYLAIVHAVF   ALRARTVTFG   IITSIITWAL AILASMPALY   FFKAQWEFTH   RTCSPHFPYK   SLKQWKRFQA LKLNLLGLIL   PLLVMIICYA   GIIRILLRRP   SEKKVKAVRL IFAITLLFFL   LWTPYNLSVF   VSAFQDVLFT   NQCEQSKQLD LAMQVTEVIA   YTHCCVNP II  YVFGGERFWK   YLRQLFQRHV AIPLAKWLPF   LSV DQLERTS   SISPSTGEHE   LSAGF           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	CCR1, a receptor belonging to the C-C type chemokine family, serves as a binding site for chemokines such as MIP-1-alpha, RANTES, and, to a lesser extent, MIP-1-beta or MCP-1. Upon ligand binding, CCR1 initiates signal transduction processes that
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lead to an elevation in intracellular calcium ion levels. This receptor plays a pivotal role in modulating stem cell proliferation, contributing to the regulation of cellular processes critical for tissue homeostasis and immune responses. Additionally, CCR1 interacts with CREB3, potentially participating in the intricate network of signaling pathways that govern cellular functions.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA