

CXCR2 Protein, Mouse (Cell-Free, His)

Cat. No.:	HY-P702257
Synonyms:	C-X-C chemokine receptor type 2; GRO/MGSA receptor; High affinity interleukin-8 receptor B; IL-8R B; CD182
Species:	Mouse
Source:	E. coli Cell-free
Accession:	P35343 (M1-L359)
Gene ID:	12765
Molecular Weight:	43.2 kDa

PROPERTIES

AA Sequence	<pre> M G E F K V D K F N I E D F F S G D L D I F N Y S S G M P S I L P D A V P C H S E N L E I N S Y A V V V I Y V L V T L L S L V G N S L V M L V I L Y N R S T C S V T D V Y L L N L A I A D L F F A L T L P V W A A S K V N G W T F G S T L C K I F S Y V K E V T F Y S S V L L L A C I S M D R Y L A I V H A T S T L I Q K R H L V K F V C I A M W L L S V I L A L P I L I L R N P V K V N L S T L V C Y E D V G N N T S R L R V V L R I L P Q T F G F L V P L L I M L F C Y G F T L R T L F K A H M G Q K H R A M R V I F A V V L V F L L C W L P Y N L V L F T D T L M R T K L I K E T C E R R D D I D K A L N A T E I L G F L H S C L N P I I Y A F I G Q K F R H G L L K I M A T Y G L V S K E F L A K E G R P S F V S S S S A N T S T T L </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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 ₂ 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.
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	CXCR2 Protein serves as the receptor for interleukin-8, a potent neutrophil chemotactic factor, and its binding to the receptor leads to the activation of neutrophils. This response is mediated through a G-protein, initiating a
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phosphatidylinositol-calcium second messenger system. CXCR2 exhibits high-affinity binding not only to IL-8 but also to other ligands, including CXCL3, GRO/MGSA, and NAP-2. The protein interacts directly with IL8 and associates with GNAI2, highlighting its role in intricate signaling pathways involved in the regulation of neutrophil activity and chemotaxis. These interactions emphasize the significance of CXCR2 in mediating immune responses, particularly those related to the recruitment and activation of neutrophils in various physiological and pathological contexts.

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

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