

Overview

Synonyms	Monocyte Chemoattractant Protein-2, HC14, SCYA8
Description	<p>MCP-2 is a member of the chemokines, a group of 70-80 residue proteins sharing substantial sequence similarity. Within the chemokines, MCP-2 belongs to the CC subfamily, and is a member of the Monocyte Chemoattractant Proteins (MCPs), which includes MCP-1, MCP-2, MCP-3, MCP-4, and MCP-5. MCP-2 shares 60% homology with MCP-1, and both proteins can undergo reversible dimerization. The main receptors of MCP-2 are G-protein coupled receptors CCR1 and CCR5. MCP-2 is a potential target in HIV-1 infected human glial cells as it may play a role in the modulation of viral spread in the brain. Recently, researchers found that mouse MCP-2 is expressed in the skin as a novel agonist of CCR8 and plays a role in eosinophilic inflammation.</p> <p>Recombinant human MCP-2/CCL8(rhMCP-2) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 76 amino acids. A fully biologically active molecule, rhMCP-2 has a molecular mass of 8.9kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P80075
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 0.5 µg/mL, measured by the FLIPR assay using CHO cells transfected with human CCR5, the receptor of human CCL8, corresponding to a specific activity of > 2 × 10 ³ units/mg.
Sequence	QPDSVSIPIT CCFNVINRKI PIQRLESYTR ITNIQCPKEA VIFKTKRGKE VCADPKERWV RDSMKHLDQI FQNLKP

Properties

Measured Molecular Weight	8.9 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE analysis.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/mL.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human MCP-2/CCL8(rhMCP-2) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhMCP-2 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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