

CCL7 (MCP-3) (Biotinylated) Human E.coli

Product Data Sheet

Type: Recombinant

Source: E. coli

Species: Human

Other names: C-C motif chemokine 7, Monocyte chemoattractant protein 3, Monocyte chemotactic protein 3, MCP-3, NC28, Small-inducible cytokine A7, CCL7, MCP3, SCYA6, SCYA7

Cat. No.:

RD172387002-BIOTIN	(0.002 mg)
RD172387010-BIOTIN	(0.01 mg)
RD172387050-BIOTIN	(0.05 mg)

Description

Total 95 AA. MW: 11,2 kDa (calculated). **Biotinylated at the last Lysine in sequence.** UniProtKB acc.no# P80098 (24-99)
Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

Monocyte chemotactic protein 3 (MCP3)(CCL7) is secreted by monocytes and certain tumor cell lines. It is a chemoattractant for monocytes and other leukocytes. MCP3 binds and signals through several cell surface receptors including CCR1, CCR2, CCR3, and appears to be an antagonist for CCR5.

Research topic

Chemokines, Cytokines and chemokines and related molecules

Amino Acid Sequence

QPVGINTSTT CCYRFINKKI PKQRLESYRR TTSSHCPREA VIFKTKLDKE ICADPTQKWV QDFMKHLDKK TQTPKLLKLS
GLNDIFEAQK IEWHE

Source

E. coli

Purity

97% by SDS PAGE

Biological Activity

EC50 = 1.4-2.6 nM determined by migration assay with cells expressing recombinant CCR2

Endotoxin

<0.01 EU per 1µg of the protein

Reconstitution

Add sterile water to prepare a working stock solution of approximately 0.1 mg/ml and let the lyophilized pellet dissolve completely.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store the lyophilized protein at -20 to -70 °C. Lyophilized protein remains stable until the expiry date when stored at -20 to -70 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -20 to -70 °C, the protein is stable for 3 months at -20 to -70 °C under sterile conditions after reconstitution. Reconstituted protein can be stored at 4 °C for 1 month under sterile conditions after reconstitution

Quality Control Test

Quantification is done by A280, using the calculated extinction coefficient (14,180 M⁻¹ cm⁻¹).

SDS-PAGE to determine purity of the protein.

LAL TEST to determine endotoxin level.

Applications

Biologically active protein, Cell culture and/or animal studies, ELISA, Flow cytometry, Immunocytochemistry, Western blotting

Note

This product is intended for research use only.

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