

C-C motif chemokine 7 (CCL7), Human

Cat.no. PK0251

Product size: 10ug 50ug 1mg

Source: CHO

Species: Human

Biological Activity: The EC₅₀ value of human MCP-3/CCL7 on Ca²⁺ mobilization assay in CHO-K1/ Gα15/hCCR1 cells (human Gα15 and human CCR1 stably expressed in CHO-K1 cells) is less than 1.5 µg/ml.

Molecular Weight: 10-18 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O at 100 µg/ml.

Purity: > 98% by SDS-PAGE and HPLC analyses.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant human CCL7 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human CCL7 should be stable up to 1 week at 4°C or up to 2 months at -20°C.

Description: Chemokine (C-C motif) ligand 7 (CCL7) is a small cytokine that was previously called monocyte-specific chemokine 3 (MCP-3). Due to CCL7 possessing two adjacent N-terminal cysteine residues in its mature form, it is classified within the subfamily of chemokines known as CC chemokines. CCL7 specifically attracts monocytes, and regulates macrophage function. It is produced by certain tumor cell lines and by macrophages. This chemokine is located on chromosome 17 in humans, within a large cluster containing many other CC chemokines and is most closely related to CCL2. CCL7 can signal through the CCR1, CCR2 and CCR3 receptors. Recombinant human CCL7 produced in CHO cells is a polypeptide chain containing 76 amino acids.

Amino Acid Sequence:

00001 QPVGINTSTT CCYRFINKKI PKQRLESYRR TTSSHCPREA

00041 VIFKTKLDKE ICADPTQKWV QDFMKHLDDK TQTPKL

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

Note: For research use only, not for use in diagnostic procedure.