Datasheet

Cat. No. P1463

Recombinant Human Monocyte Chemotactic Protein-2/CCL8

Information

Gene ID	6355
Accession #	P80075
Alternate Names	HC14, Small-inducible cytokine A8
Source	Escherichia coli.
M.Wt	Approximately 8.9 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids.
AA Sequence	QPDSVSIPIT CCFNVINRKI PIQRLESYTR ITNIQCPKEA VIFKTKRGKE VCADPKERWV RDSMKHLDQI FQNLKP
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 3 years from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 10-100 ng/ml.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10μg	100μg	500μg
Recombinant Human Monocyte Chemotactic Protein-2/CCL8	10μg	100μg	500μg

Use a manual defrost freezer and avoid repeated freeze-thaw cycles
- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 96 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuMCP-2/CCL8 as determined by LAL method.

Description

Human CCL8, also known as monocyte chemotactic protein 2 (MCP-2), is belonging to the CC chemokine family. It is encoded by the gene CCL8. MCP-2 has two homogeneous MCP-1 (CCL2) and MCP-3 (CCL7). These three MCPs were found by IL-1-beta triggered human MG-63 osteosarcoma cells. CCL8 shares 62 % amino acid sequence identity with MCP-1, and shares 58 % amino acid sequence identity with MCP-2. CCL8 has chemotactic function for monocytes, eosinophils and neutrophils. In addition, it can also chemoattract activated NK cells.

Reference

1. Van Coillie E, Fiten P, Nomiyama H, et al. 1997. Genomics. 40:323-31
2. Opdenakker G, Froyen G, Fiten P, et al. 1993. Biochem Biophys Res Commun. 191:535-42
3. Proost P, Wuyts A, Van Damme J. 1996. J Leukoc Biol. 59:67-74
4. Gong W, Howard OM, Turpin JA, et al. 1998. J Biol Chem. 273:4289-92.

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