CELL APPLICATIONS, INC.

RECOMBINANT PROTEINS

Human Monocyte Chemotactic Protein-2

SIZE	CAT. NO.
10 ug	RP1130-10
100 ug	RP1130-100
1000 ug	RP1130-1000

BACKGROUND

Monocyte Chemoattractant Protien 2 (MCP-2), also known as CCL8, is implicated in allergic responses through its ability to activate mast cells, eosinophils, and basophils. MCP-2 is known to signal through several G protein-coupled receptors including, CCR1, CCR2B, and CCR5.

Recombinant human MCP-2 is a non-glycosylated protein, containing 76 amino acids and having a molecular mass of 8.9 kDa.

Alternative Names:
CCL8, HC14

Amino Acid Sequence:
QPDSVSIPIT CCFNVINRKI PIQRLESYTR ITNIQCPKEA
VIFKTKRGKE VCADPKERWV RDSMKHLDQI FQNLKP

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:
Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
Recombinant human MCP-2 is lyophilized with no additives.

Stability:
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
The biological activity is determined by the ability of MCP-2 to chemoattract human PBMCs and is typically in the range of 10-100 ng/mL.