Recombinant CCL8 protein (His tag)

Catalog Number	542503
Synonyms	HC14; Monocyte chemoattractant protein 2; Monocyte chemotactic protein 2; MCP-2; Small-inducible cytokine A8; 6-76
Species	Human
Expression System	E. coli
Accession	P80075
Molecular Weight	Predictes a molecular mass of 10.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	24-99
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 24-99 aa (P80075) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human C-C motif chemokine 8 (CCL8) fragment (residues 24-99) is a stable and soluble protein unit designed for structural and biochemical studies. This fragment retains key functional domains of the full-length chemokine, which is known for its potent chemotactic activity towards monocytes, lymphocytes, basophils, and eosinophils, making it invaluable for research in immunology and inflammation. C-C motif chemokine 8 (CCL8), also referred to as Monocyte chemoattractant protein 2 (MCP-2), is a secreted protein in humans that functions as a chemotactic factor, attracting immune cells such as monocytes, lymphocytes, basophils, and eosinophils. It plays roles in inflammatory responses and may be involved in neoplasia, with the ability to bind heparin. Notably, the processed form MCP-2(6-76) lacks monocyte chemotactic activity but acts as an inhibitor, suppressing chemotaxis induced by CCL7, CCL2, CCL5, and CCL8, highlighting its regulatory importance in immune cell migration and signaling pathways.