

Recombinant Murine Dendritic Cell Inflammatory Protein-1/CXCL3

Information

Gene ID	330122
Accession #	Q6W5C0
Alternate Names	
Source	Escherichia coli.
M.Wt	Approximately 7.9 kDa, a single, non-glycosylated polypeptide chain containing 73 amino acids.
AA Sequence	AVVASELRCQ CLNTLPRVDF ETIQSLTVTP PGPHTQTEV IATLKDGQEV CLNPQGPRLQ IIIKKILKSG KSS
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	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
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
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 CXCR2 transfected human 293 cells 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 Murine Dendritic Cell Inflammatory Protein-1/CXCL3	10µg	100µg	500µg

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- 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	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuDCIP-1/CXCL3 as determined by LAL method.

Description

CXCL3, also known as DCIP1 in murine, CINC2 in rat, and GRO γ in humans, is belonging to the CXC chemokine family. It is encoded by the gene CXCL3 in mouse. The functional receptor for CXCL3 has been identified as CXCR2. Similar to other GRO proteins, CXCL3 is potent neutrophil attractants and activators. CXCL3 plays a role in inflammation and exert its effects on endothelial cells in an autocrine fashion. The amino acid sequence of murine CXCL3 is 57 % identical to human CXCL3.

Reference

1. Nolan KF, Strong V, Soler D, et al. 2004. J Immunol. 172:2201-9
2. Modi WS, Yoshimura T. 1999. Mol Biol Evol. 16:180-93
3. Tsai HH, Frost E, To V, et al. 2002. Cell. 110:373-83
4. Smith DF, Galkina E, Ley K, et al. 2005. Am J Physiol Heart Circ Physiol. 289:H1976-84
5. Wuyts A, Govaerts C, Struyf S, et al. 1999. Eur J Biochem. 260:421-9.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com