

Active Recombinant Human Chemokine (C-X-C motif) Ligand 17

Cat. No. CXCL17-436H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CXCL17 is expressed in E. coli, which has a molecule weight of 11.3 kDa. Leu24 Leu119.
Species	Human
Source	E.coli
Description	Dendritic cell and monocyte chemokine-like protein (DMC), also known as VEGF-correlated chemokine 1 (VCC1) and CXCL17, is a novel secreted molecule that belongs to the intercrine alpha (or CXC) family of chemokines. It has no predicted N-glycosylation sites, so cleavage of a 22 amino acid (aa) signal sequence likely results in a mature human DMC of 97 aa and 11 kDa. DMC expression is increased in endothelial cells when they are induced to form tubes in vitro. Transgenic overexpression in NIH3T3 cells causes upregulation of proteins such as VEGF and FGF basic, and increases cell growth rate and tumorigenicity. DMC and two other chemokines that play roles in angiogenesis, CXCL1/GRO and CXCL8/IL8, show significantly correlated expression with that of VEGF in primary lung, breast and esophageal tumors. DMC is therefore suggested to play a role in tumor angiogenesis. Mature human DMC shares 73%, 71% and 64% amino acid sequence identity with bovine, mouse and rat DMC, respectively.
Form	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA with BSA as a carrier protein.

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N-terminal Sequence	Leu24
Molecular Weight	11.3 kDa
Activity	Measured by its ability to induce VEGF expression in mouse endothelial cells. The ED50 for this effect is typically 1-5 µg/mL.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Reconstitution	Reconstitute at 100 µg/mL in PBS that containing at least 0.1% human or bovine serum albumin.
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.
Official Symbol	CXCL17

GENE INFORMATION

Gene Name	CXCL17 chemokine (C-X-C motif) ligand 17 [Homo sapiens]
Synonyms	CXCL17; chemokine (C-X-C motif) ligand 17; DMC; VCC1; Dcip1; VCC-1; UNQ473; MGC138300; VEGF co-regulated chemokine 1; C-X-C motif chemokine 17; dendritic cell and monocyte chemokine-like protein
Gene ID	284340

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mRNA Refseq	NM_198477
Protein Refseq	NP_940879
MIM	611387
UniProt ID	Q6UXB2
Chromosome Location	19q13.2

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