

Recombinant Zebrafish cxcl12a Protein, His&GST-tagged

Cat. No. cxcl12a-1221Z **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Zebrafish cxcl12a Protein (Lys24-Val99) with His&GST tag was expressed in E. coli.
Species	Zebrafish
Source	E.coli
ProteinLength	Lys24-Val99
Description	Enables chemoattractant activity. Acts upstream of or within several processes, including fin regeneration; nervous system development; and regulation of cell migration. Is active in migrasome. Is expressed in several structures, including brain; mesoderm; myoseptum; neural rod; and sensory system. Human ortholog(s) of this gene implicated in breast carcinoma; diabetic angiopathy; human immunodeficiency virus infectious disease; and type 1 diabetes mellitus. Orthologous to human CXCL12 (C-X-C motif chemokine ligand 12).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 39.0 kDa; Accurate Molecular Mass: 40 kDa
Purity	> 80%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	cxcl12a chemokine (C-X-C motif) ligand 12a (stromal cell-derived factor 1) [Danio rerio (zebrafish)]
Official Symbol	cxcl12a
Synonyms	cxcl12a; chemokine (C-X-C motif) ligand 12a (stromal cell-derived factor 1); SDF-1; sdf1a; cxcl12; sdf-1a; wu:fa55e10; wu:fc16h12; wu:fj84c02; chemokine (C-X-C motif) ligand 12a (stromal cell-derived factor 1); chemokine ligand 12; unim t30516; unim_t30516
Gene ID	352944
mRNA Refseq	NM_178307
Protein Refseq	NP_840092

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UniProt ID

www.uniprot.org/uniprot/Q8AV10

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