

Bioactive

## Cxcl12 (Mouse) Recombinant Protein

Catalog # P4371

Size 10 ug

### Specification

<b>Product Description</b>	Mouse Cxcl12 (P40224, 22 a.a. - 93 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i> .
<b>Sequence</b>	KPVSLSYRCPCRFFESHARANVKHLKILNTPNCALQIVARLKNNNRQVCIDPKLKWIQEYLEKALN KRLKM
<b>Host</b>	<i>Escherichia coli</i>
<b>Theoretical MW (kDa)</b>	8
<b>Form</b>	Lyophilized
<b>Preparation Method</b>	<i>Escherichia coli</i> expression system
<b>Purification</b>	Ion exchange column and HPLC reverse phase column
<b>Purity</b>	> 90% by SDS-PAGE and HPLC
<b>Endotoxin Level</b>	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
<b>Activity</b>	Determined by the ability to chemoattract human peripheral T cells activated with PHA and IL-2 using a concentration range of 5-40 ng/mL.
<b>Storage Buffer</b>	Lyophilized from 2.5% glycine, 0.5% sucrose, 0.01% Tween 80, 5 mM Glutamic acid, pH 4.5
<b>Storage Instruction</b>	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

### Applications

- Functional Study
- SDS-PAGE

## Gene Info — Cxcl12

Entrez GeneID	<a href="#">20315</a>
Protein Accession#	<a href="#">P40224</a>
Gene Name	Cxcl12
Gene Alias	AI174028, PBSF, PBSF/SDF-1, SDF-1, Scyb12, Sdf1, Sdf1a, Sdf1b, TLSF, TLSF-a, TLSF-b, T PAR1
Gene Description	chemokine (C-X-C motif) ligand 12
Gene Ontology	<a href="#">Hyperlink</a>
Other Designations	OTTMUSP00000026112 OTTMUSP00000026113 OTTMUSP00000026114 pre-B-cell growth-stimulating factor stromal cell derived factor 1

## Publication Reference

- [CXCL12-mediated monocyte transmigration into brain perivascular space leads to neuroinflammation and memory deficit in neuropathic pain.](#)

Chun-Lin Mai, Zhi Tan, Ya-Nan Xu, Jing-Jun Zhang, Zhen-Hua Huang, Dong Wang, Hui Zhang, Wen-Shan Gui, Jun Zhang, Zhen-Jia Lin, Ying-Tong Meng, Xiao Wei, Ying-Tao Jie, Peter M Grace, Long-Jun Wu, Li-Jun Zhou, Xian-Guo Liu.

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Application: Func, Mouse, Mouse plasma, Mouse tail vein