Bioactive

Cxcl12 (Mouse) Recombinant Protein

Catalog # P4371 Size 10 ug

Specification

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

Applications

- Functional Study
- SDS-PAGE

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Gene Info — Cxcl12

Entrez GeneID	20315
Protein Accession#	P40224
Gene Name	Cxcl12
Gene Alias	AI174028, PBSF, PBSF/SDF-1, SDF-1, Scyb12, Sdf1, Sdf1a, Sdf1b, TLSF, TLSF-a, TLSF-b, TPAR1
Gene Description	chemokine (C-X-C motif) ligand 12
Gene Ontology	Hyperlink
Other Designations	OTTMUSP00000026112|OTTMUSP00000026113|OTTMUSP00000026114|pre-B-cell growth-stimulating factor|stromal cell derived factor 1

Publication Reference

- Elevated plasma CXCL12 leads to pain chronicity via positive feedback upregulation of CXCL12/CXCR4 axis in pain synapses.

  Shi-Ze Leng, Mei-Jia Fang, Yi-Min Wang, Zhen-Jia Lin, Qian-Yi Li, Ya-Nan Xu, Chun-Lin Mai, Jun-Ya Wan, Yangyinhui Yu, Ming Wei, Ying Li, Yu-Fan Zheng, Kai-Lang Zhang, Ya-Juan Wang, Li-Jun Zhou, Zhi Tan, Hui Zhang.

  The Journal of Headache and Pain 2024 Dec; 25(1):213.

  Application: Control, Mouse, Plasma

- Potential Antiproliferative and Antimetastatic Effects of Artemisia eriantha: An In Vitro Study Focused on Hepatocarcinoma Cells.

  Loretta Pace., Federica Ragusa., Lara Lizzi., Maria Giovanna Armillotta., Mara Massimi.

  Biology (Basel) 2024 Nov; 13(12):985.

  Application: Western blot, Human, HepG2, Huh7 hepatocarcinoma cell lines

- 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.

  Theranostics 2021 Jan; 11(3):1059.

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

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