

Growth Factor Data Sheet

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Rat CX3CL1 is a chemokine that is unlike most chemokines because it contains the C-X-X-X-C motif. It is expressed by neurons, endothelial cells, follicular dendritic cells, and some lymphocytes. Expression of CX3CL1 is induced by activation of the transcription factor NFKB1 through IFNG, IL1B, TNF, or LPS. CX3CL1 is chemotactic for T-cells and monocytes and plays a role in angiogenesis, as well as regulation of leukocyte traffic at the endothelium. CX3CL1 expressed by neurons suppress microglia in order to protect neurons from damage caused by reactive molecules expressed by microglia. CX3CL1 is a ligand for CX3CR1 as well as virus-encoded receptors M3 and US28.

Catalog Number	2530-01
Product Name	CX3CL1, Rat Recombinant Rat Chemokine (C-X3-C motif) Ligand 1 (CX3CL1) Fractalkine Small Inducible Cytokine Subfamily D Member 1 (SCYD1) ATP-Binding Cassette, Subfamily D Member 3 (ABCD-3) Neurotactin (NTN)
Source	<i>Escherichia coli</i>
MW	~8.8 kDa (76 amino acids)
Sequence	QHLGMTKCNITCHKMTSPIPVTLIIHYQLNQESCGKRAIILETQRHRHFCADPKEKWWVQD AMKHLDHQTAALTRNG
Accession Number	O55145
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration of 5-10 ng/ml.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.