

Product datasheet

Recombinant human XCL1 protein ab229838

1 Image

Description

Product name	Recombinant human XCL1 protein
Biological activity	ab229838 activity verified by intracellular calcium flux using HEK 293 cells.
Purity	> 95 % SDS-PAGE. ab229838 is expressed in E. coli then processed, refolded and purified to yield the native, secreted form of the mature chemokine. >98% pure by SDS-PAGE, HPLC, MALDI-MS and NMR analysis.
Expression system	Escherichia coli
Accession	P47992
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	10 kDa
Amino acids	22 to 114
Additional sequence information	Full-length mature protein lacking the signal peptide.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab229838** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Other Mass Spectrometry HPLC SDS-PAGE Functional Studies
Mass spectrometry	MALDI-TOF
Form	Lyophilised

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -20°C long term.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Add deionized water to desired volume, aliquot and freeze unused portion.

General Info

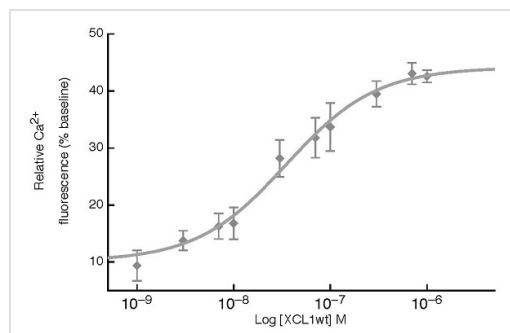
Relevance

Human lymphotactin (Lptn)/XCL1, also named human SCM1 and ATAC, is a member of gamma or C subfamily of chemokines that lack two of the four invariant cysteine residues normally found in the CC and CXC chemokines and have an extended C-terminus. Human lymphotactin encodes a 114 amino acid precursor protein with a 21 amino acid predicted signal peptide. The gene for human and mouse lymphotactin has been mapped to chromosome 1. Human and mouse lymphotactin share approximately 60% amino acid sequence identity. The expression of lymphotactin is restricted to activated T cells such as activated CD8+ T cells and other class I MHC restricted T cells. Since lymphotactin is produced by lymphocytes and acts on lymphocytes, it is speculated that it is a messenger in T cell chemoattraction. Human lymphotactin is chemotactic for lymphocytes and NK cells. Its expression is abundant in some activated T cells such as activated CD8+ T cells and other class I MCH restricted T cells and is absent in CD4+ T cells. It has been shown that lymphotactin is a key regulator of lymphocyte motility and adhesion during acute allograft rejection. The specific receptor for lymphotactin is the orphan receptor XCR1 (GPR5). It has chemotactic activity for lymphocytes and natural killer cells but not for monocytes or neutrophils.

Cellular localization

Secreted

Images



ab229838 activity verified by intracellular calcium flux using HEK 293 cells.

Functional Studies - Recombinant human XCL1 protein (ab229838)

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