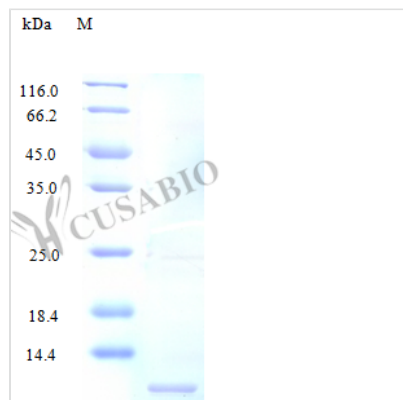




Recombinant Human Fractalkine protein (CX3CL1), partial (Active)

Product Code	CSB-AP000801HU
Abbreviation	Recombinant Human CX3CL1 protein, partial (Active)
Uniprot No.	P78423
Storage Buffer	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl
Product Type	Chemokines
Immunogen Species	Homo sapiens (Human)
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration of 5.0-10 ng/ml.
Purity	>97% as determined by SDS-PAGE.
Sequence	QHHGVTKCNI TCSKMTSKIP VALLIHYQQN QASCGKRAII LETRQHRLFC ADPKEQWVKD AMQHLDLRQAA ALTRNG
Research Area	Immunology
Source	E.Coli
Target Names	CX3CL1
Expression Region	25-100aa
Tag Info	Tag-Free
Mol. Weight	8.6 kDa
Protein Length	Partial
PubMed ID	9024663; 10493829; 15489334; 19838169; 22171320; 9931005; 10770945; 21829356

Image



Description

Recombinant Human CX3CL1, also known as Fractalkine, is a multifunctional



chemokine involved in immune responses and plays a critical role in the recruitment and activation of leukocytes^[1]. Our recombinant human CX3CL1 is a partial protein, comprising amino acids 25-100, with a molecular weight of 8.6 kDa. Expressed in *E. coli*, this tag-free recombinant protein is available in liquid or lyophilized powder form, making it suitable for various research applications in the field of immunology.

Our Recombinant Human CX3CL1 features a purity greater than 97% as determined by SDS-PAGE and HPLC, ensuring high quality for your research needs. The endotoxin level is less than 1.0 EU/ug, as determined by the LAL method. The biological activity of our CX3CL1 has been verified by a chemotaxis bioassay using human T-lymphocytes, demonstrating activity within a concentration range of 5.0-10 ng/ml.

Studies have shown that CX3CL1 is implicated in a wide range of immune-mediated disorders, such as atherosclerosis, multiple sclerosis, rheumatoid arthritis, and inflammatory bowel disease^[2]. Additionally, CX3CL1 has been linked to the regulation of tumor progression and metastasis in certain types of cancer^[3].

References:

1. Bazan JF, *et al.* A new class of membrane-bound chemokine with a CX3C motif. *Nature*. 1997;385(6617): 640-4.
2. Jones BA, *et al.* Fractalkine/CX3CL1: A potential new target for inflammatory diseases. *Mol Interv*. 2010;10(5): 263-70.
3. Park MH, *et al.* Serum fractalkine levels are elevated in patients with advanced non-small cell lung cancer. *Korean J Intern Med*. 2010;25(2): 146-52.

Endotoxin

Less than 1.0 EU/μg as determined by LAL method.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.