Fractalkine Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: CX3CL1

Cat. No.:

RBG10149005	(5 µg)
RBG10149020	(20 µg)
RBG10149100	(100 µg)

Description

Fractalkine is a CX3CL chemokine that signals through the CX3CR1 receptor. Fractalkine has been shown to chemoattract monocytes, microglia cells and NK cells. Fractalkine is, at this time, the only CXC3C chemokine that contains three amino acid residues between the first and second cysteine residues of the chemokine domain. The Fractalkine gene encodes for a 397 amino acid precursor protein containing a 24 amino acid signal sequence, a chemokine domain, and a “mucin-like stalk” sequence, which is followed by the transmembrane domain containing approximately 20 amino acids, and a C-terminal cytoplasmic domain. The extracellular chemokine domain contains 76 amino acid residues, including the four conserved cysteine residues found in other chemokines. Recombinant Human Fractalkine is an 8.5 kDa protein containing 76 amino acid residues, including the four conserved cysteine residues present in CC chemokines.

Research topic

Animal studies, Reproduction

Amino Acid Sequence

QHHGVTKCNI TCSKMTSKIP VALLIHYQQN QASCGKRAII LETRQHRLFC ADPKEQWVKD AMQHLDRQAA ALTRNG

Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to chemoattract human T cells using a concentration range of 5.0-10.0 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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