SDF-1alpha Rat E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Rat
Other names: Stromal-Cell Derived Factor-1, CXCL12, PBSF

Cat. No.:

RBG30074002	(2 µg)
RBG30074010	(10 µg)
RBG30074100	(100 µg)

Description

SDF-1alpha and beta are stromal-derived, CXC chemokines that signal through the CXCR4 receptor. SDF-1alpha and beta chemoattract B and T cells, and have been shown to induce migration of CD34+ stem cells. Additionally, the SDF-1 proteins exert HIV-suppressive activity in cells expressing the CXCR4 receptor. Human and murine SDF-1 proteins act across species. SDF-1alpha and beta contain the four highly conserved cysteine residues present in CXC chemokines. The mature SDF-1alpha protein is the result of alternative splicing of the SDF-1 gene and contains 68 amino acid residues. Recombinant Murine SDF-1alpha is a 7.9 kDa protein containing 68 amino acid residues. Recombinant Rat SDF-1alpha is a 7.9 kDa protein containing 68 amino acid residues.

Research topic

Chemokines, Cytokines and chemokines and related molecules, Immune Response, Infection and Inflammation, Neural tissue markers

Amino Acid Sequence

KPVSLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNNRQVC IDPKLKWIQE YLDKALNK

Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to chemoattract human peripheral blood monocytes using a concentration range of 50.0-100.0 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. 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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