

Product datasheet

Recombinant mouse SDF1 alpha protein ab51939

1 References

概述

产品名称	Recombinant小鼠SDF1 alpha protein
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Escherichia coli

氨基酸序列

Accession	P40224
种属	Mouse
序列	KPVSLSYRCP CRFFESHIAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE YLEKALNK
氨基酸	22 to 89
额外的序列信息	Mature full length for alpha isoform.

技术指标

Our [Abpromise guarantee](#) covers the use of **ab51939** in the following tested applications.

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

生物活性	Determined by its ability to chemoattract human peripheral blood monocytes using a concentration range of 50-100 ng/ml.
应用	SDS-PAGE Functional Studies
纯度	> 95 % SDS-PAGE. >99% by SDS-PAGE and HPLC analyses. Endotoxin level is <0.1 ng per µg (1EU/µg).
形式	Lyophilised

制备和贮存

稳定性和存储

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 10mM Acetic acid

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

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

复溶

We recommend a quick spin followed by reconstitution in sterile distilled water to a concentration of 0.1-1.0 mg/ml. (The protein may appear as a haze or film, which is difficult to see at the bottom of the vial.)

常规信息

功能

Chemoattractant active on T-lymphocytes, monocytes, but not neutrophils. Activates the C-X-C chemokine receptor CXCR4 to induce a rapid and transient rise in the level of intracellular calcium ions and chemotaxis. SDF-1-beta(3-72) and SDF-1-alpha(3-67) show a reduced chemotactic activity. Binding to cell surface proteoglycans seems to inhibit formation of SDF-1-alpha(3-67) and thus to preserve activity on local sites. Acts as a positive regulator of monocyte migration and a negative regulator of monocyte adhesion via the Lyn kinase. Stimulates migration of monocytes through its receptor, CXCR4, and decreases monocyte adherence to surfaces coated with ICAM-1, a ligand for beta-2 integrins. SDF1A/CXCR4 signaling axis inhibits beta-2 integrin LFA-1 mediated adhesion of monocytes to ICAM-1 through Lyn kinase.

序列相似性

Belongs to the intercrine alpha (chemokine CxC) family.

翻译后修饰

Processed forms SDF-1-beta(3-72) and SDF-1-alpha(3-67) are produced after secretion by proteolytic cleavage of isoforms Beta and Alpha, respectively. The N-terminal processing is probably achieved by DPP4. Isoform Alpha is first cleaved at the C-terminus to yield a SDF-1-alpha(1-67) intermediate before being processed at the N-terminus. The C-terminal processing of isoform Alpha is reduced by binding to heparin and, probably, cell surface proteoglycans.

细胞定位

Secreted.

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