

Product datasheet

Recombinant rat SDF1 alpha protein ab79959

製品の概要

製品名	Recombinant rat SDF1 alpha protein
タンパク質長	Full length protein

製品の詳細

由来	Recombinant
由来	Escherichia coli
アミノ酸配列	
生物種	Rat
配列	KPVLSLYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNRQVC IDPKLKIQE YLDKALNK

特性

Our [Abpromise guarantee](#) covers the use of **ab79959** in the following tested applications.

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

生理活性	Biological Activity : Determined by its ability to chemoattract human peripheral blood monocytes using a concentration range of 50.0-100.0 ng/ml.
アプリケーション	SDS-PAGE
エンドトキシン・レベル	< 0.100 Eu/μg
精製度	> 95 % SDS-PAGE. ab79959 is greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per μg (1EU/μg).
製品の状態	Lyophilised

前処理および保存

保存方法および安定性	Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles. This product is an active protein and may elicit a biological response in vivo, handle with caution.
再構成	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;. Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C; to -80°C;. Avoid repeated freeze/thaw cycles.

関連情報

機能	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.
配列類似性	Belongs to the intercrine alpha (chemokine Cx) family.
翻訳後修飾	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.
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