

SDF-1 α (human)

Cat. No.:	HY-P4911
CAS No.:	1268129-65-2
Molecular Formula:	C ₃₅₆ H ₅₇₈ N ₁₀₆ O ₉₃ S ₄
Molecular Weight:	7959.34
Sequence:	Lys-Pro-Val-Ser-Leu-Ser-Tyr-Arg-Cys-Pro-Cys-Arg-Phe-Phe-Glu-Ser-His-Val-Ala-Arg-Ala-Asn-Val-Lys-His-Leu-Lys-Ile-Leu-Asn-Thr-Pro-Asn-Cys-Ala-Leu-Gln-Ile-Val-Ala-Arg-Leu-Lys-Asn-Asn-Asn-Arg-Gln-Val-Cys-Ile-Asp-Pro-Lys-Leu-Lys-Trp-Ile-Gln-Glu-Tyr-Leu-Glu-Lys-Ala-Leu-Asn-Lys (Disulfide bridge:Cys9-Cys34;Cys11-Cys50)
Sequence Shortening:	KPVLSYRCPCRFFESHVARANVKHLKILNTPNCALQIVARLKNNNRQVCIDPKLKWIQEYLEKALNK (Disulfide bridge:Cys9-Cys34;Cys11-Cys50)
Target:	CXCR
Pathway:	GPCR/G Protein; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

SDF-1 α (human) is a mononuclear cells chemoattractant that can bind to CXCR4. SDF-1 α plays a central role in stem cell homing, retention, survival, proliferation, cardiomyocyte repair, angiogenesis and ventricular remodelling following myocardial infarction. SDF-1 α (human) can be used in cardiovascular disease research^{[1][2]}.

REFERENCES

[1]. Gupta SK, et al. Modulation of CXCR4 expression and SDF-1 α functional activity during differentiation of human monocytes and macrophages. J Leukoc Biol. 1999 Jul;66(1):135-43.

[2]. Bromage DI, et al. Stromal derived factor 1 α : a chemokine that delivers a two-pronged defence of the myocardium. Pharmacol Ther. 2014 Sep;143(3):305-15.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA