Stromal cell-derived factor 1

Catalog No: #AP78530



Package Size: #AP78530-1 50ug #AP78530-2 100ug #AP78530-3 1mg

Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

				_	
םו ו	ccri	n	ТΙ	റ	n
De	JULI	v	un	U	
		10			

Product Name	Stromal cell-derived factor 1	
Brief Description	Recombinant Protein	
Host Species	E.coli	
Purification	Greater than 90% by SDS-PAGE	
Species Reactivity	Human	
Immunogen Description	22-93AA	
Other Names	SDF1,SDF1A,SDF1B,C-X-C motif chemokine 12,Intercrine reduced in hepatomas,Pre-B cell	
	growth-stimulating factor,IRH,PBSF	
Accession No.	P48061Gene name:CXCL12	
Uniprot	P48061	
GeneID	6387;	
Calculated MW	7.92	
Tag Info	His	
Formulation	50mM NaH2PO4, 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)	
Storage	Store at -20C. (Avoid repeated freezing and thawing.)Repeated freezing and thawing is not recommended.	
	Store working aliquots at 4°C for up to one week.	

Background

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. Also binds to atypical chemokine receptor ACKR3, which activates the beta-arrestin pathway and acts as a scavenger receptor for SDF-1. 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 and T-lymphocytes through its receptors, CXCR4 and ACKR3, 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. Inhibits CXCR4-mediated infection by T-cell line-adapted HIV-1. Plays a protective role after myocardial infarction. Induces down-regulation and internalization of ACKR3 expressed in various cells. Has several critical functions during embryonic development; required for B-cell lymphopoiesis, myelopoiesis in bone marrow and heart ventricular septum formation.

References

Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Note: This product is for in vitro research use only