

Recombinant Human SDF-1 a (rHu SDF-1 a/CXCL12-a)

Catalog No: #801121

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

Description

Product Name	Recombinant Human SDF-1 a (rHu SDF-1 a/CXCL12- a)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Hu
Target Name	rHu SDF-1a CXCL12-a
Other Names	SDF-1 alpha, hSDF-1 alpha, IRH, hIRH, PBSF
Accession No.	accession:P48061 GeneID:6387
Uniprot	P48061
GeneID	6387;
Calculated MW	Approximately 8.0 kDa, a singl
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE YLEKALNK
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB pH 7.0, 130 mM NaCl.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

Background

CXCL12 also known as SDF-1 is belonging to the CXC chemokine family. It is encoded by the CXCL12 gene. In recently study, Human CXCL12 is expressed as six isoforms that differ only in the C-terminal tail. And all SDF-1 isoforms undergo proteolytic processing of the first two N-terminal amino acids. Contrast to the canonical sequence SDF-1 β , SDF-1 α is shorter by four amino acids at the C-terminal tail. On the cell surface, the receptor for this chemokine is CXCR4 and syndecan4. CXCL12 is strongly chemotactic for T-lymphocytes, monocytes, but not neutrophils. CXCL12 is a very important factor in carcinogenesis and the neovascularisation linked to tumor progression.

References

1. Shirozu M, Nakano T, Inazawa J, et al. 1995. Genomics. 28:495-500.
2. Yu L, Cecil J, Peng SB, et al. 2006. Gene. 374:174-9.
3. De La Luz Sierra M, Yang F, Narazaki M, et al. 2004. Blood. 103:2452-9.
4. Charnaux N, Brule S, Hamon M, et al. 2005. FEBS J. 272:1937-51.
5. Bleul CC, Fuhlbrigge RC, Casasnovas JM, et al. 1996. J Exp Med. 184:1101-9.
6. Ara T, Nakamura Y, Egawa T, et al. 2003. Proc Natl Acad Sci U S A. 100:5319-23.
7. Askari AT, Unzek S, Popovic ZB, et al. 2003. Lancet. 362:697-703.
8. Ma Q, Jones D, Borghesani PR, et al. 1998. Proc Natl Acad Sci U S A. 95:9448-53.
9. Kryczek I, Wei S, Keller E, et al. 2007. Am J Physiol Cell Physiol. 292:C987-95.

Note: This product is for in vitro research use only