

Recombinant Rat SDF-1 a (rRt SDF-1a/CXCL12)

Catalog No: #841121

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Description

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| Product Name | Recombinant Rat SDF-1 a (rRt SDF-1a/CXCL12) |
| Brief Description | Recombinant Protein |
| Host Species | E.coli |
| Purification | > 97 % by SDS-PAGE and HPLC analyses. |
| Species Reactivity | Rt |
| Target Name | rr SDF-1a CXCL12 |
| Accession No. | accession:Q9QZD1 GeneID:24772 |
| Uniprot | Q9QZD1 |
| GeneID | 24772; |
| Calculated MW | Approximately 7.9 kDa, a singl |
| SDS-PAGE MW | Sterile Filtered White lyophil |
| Target Sequence | KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNRQVC IDPKLKWIQE YLDKALNK |
| Formulation | Lyophilized from a 0.2 mg/ml filtered concentrated solution in 20 mM PB, pH 7.4, 150 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. Rat CXCL12 is expressed as two isoforms that differ only in the C-terminal tail. And both SDF-1 isoforms undergo proteolytic processing of the first two N-terminal amino acids. Contrast to 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. SDF-1 is highly conserved between species, rat CXCL12 α shares approximately 96% amino acid sequence identity with human CXCL12 α .

References

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Note: This product is for in vitro research use only