

# Recombinant Rat Stromal-Cell Derived Factor-1 beta/CXCL12 beta

Catalog No: #AP60371

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Package Size: #AP60371-1 10ug #AP60371-2 100ug #AP60371-3 500ug

## Description

Product Name	Recombinant Rat Stromal-Cell Derived Factor-1 beta/CXCL12 beta
Host Species	Escherichia coli.
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Uniprot	Q9QZD1
GeneID	24772
Calculated MW	Approximately 8.4 kDa, a single non-glycosylated polypeptide chain containing 72 amino acids.
Target Sequence	KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNRQVC IDPKLKWIQE YLDKALNKRL KM
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

## Background

CXCL12 also known as SDF-1 is belonging to the CXC chemokine family. 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. In all SDF-1 isoforms, SDF-1β is the canonical sequence. It has the complete amino acids in 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, murine CXCL12β shares approximately 96 % amino acid sequence identity with human CXCL12β.

Note: This product is for in vitro research use only