

**SDF-1beta/CXCL12, feline recombinant protein****SDF1****Catalog # PBV10264r****Specification**

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**SDF-1beta/CXCL12, feline recombinant protein - Product info**

Primary Accession

[O62657](#)

Calculated MW

**8.5 kDa** KDa**SDF-1beta/CXCL12, feline recombinant protein - Additional Info**

Gene ID

**493806**

Gene Symbol

**SDF1****Other Names**

C-X-C motif chemokine 12, C-X-C motif chemokine 12, Intercrine reduced in hepatomas, Pre-B cell growth-stimulating factor

Gene Source

**Feline**

Source

**E. coli**

Assay&amp;Purity

**SDS-PAGE; ≥97%**

Assay2&amp;Purity2

**HPLC;**

Recombinant

**Yes**

Results

**10 - 75 ng/ml.**

Sequence

**KPVSLSYRCP CRFFESHVAR ANVKHLKILN  
TPNCALQIVA RLKNNNRQVC IDPKLKWIQE  
YLEKALNKRF KM****Target/Specificity**

SDF-1 beta

**Application Notes**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Format**

Lyophilized protein

**Storage**

-20°C; Sterile filtered and lyophilized with no additives

**SDF-1beta/CXCL12, feline recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **SDF-1beta/CXCL12, feline recombinant protein - Images**

#### **SDF-1beta/CXCL12, feline recombinant protein - Background**

Stromal Derived Growth Factor-1beta (SDF-1beta), also called CXCL12, is one of two splice variants made by a wide variety of cells when stimulated by inflammatory cytokines such as, TNF, IL-1 or LPS. SDF-1 $\beta$  signals through the G protein-coupled receptor, CXCR4, to recruit activated leukocytes. Human SDF-1 $\beta$  shares 100% identity to feline SDF-1 $\beta$ . Recombinant feline SDF-1beta is a non-glycosylated protein, comprised of 72 amino acids, with a molecular weight of 8.5 kDa.

#### **SDF-1beta/CXCL12, feline recombinant protein - References**

Nishimura Y., et al. Eur. J. Immunogenet. 25:303-305(1998).