

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

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&Purity

SDS-PAGE; ≥97%

Assay2&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 β signals through the G protein-coupled receptor, CXCR4, to recruit activated leukocytes. Human SDF-1 β shares 100% identity to feline SDF-1 β . 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).