

## Recombinant Feline Stromal Cell-derived Factor 1 (CXCL12), 72AA

**Cat. No.:** AP2F245

**Product Type:** Animal Proteins

**Size:** 10 µg

### Product Overview

BioVenic's Recombinant Feline Stromal Cell-derived Factor 1 (CXCL12), 72AA is a recombinant protein expressed from E. coli expression system. Its predicted molecular weight is 8.5 kDa. The purity is greater than 95% (SDS-PAGE). The endotoxin level is <1 EU/µg (LAL).

### Specifications

Type	Recombinant Protein
Species	Feline
Expression System	E.coli Expression System
Purity	>95% (SDS-PAGE)
Endotoxin	<1 EU/µg (LAL)
Predicted Molecular Weight	8.5 kDa
Molecular Weight	8 kDa (reducing conditions)
Physical State	Lyophilized

### Target Information

Stromal Cell-Derived Factor-1 (SDF-1) belongs to the intercrine family of chemokines. There are five isoforms of SDF1, distinguished solely by their C terminal tail. These isoforms bind to CXCR4 and CXCR7 receptors located on the cell surface, and can also attach to syndecan4. SDF1 plays a role in lymphopoiesis, controlling neural progenitor cell patterns and quantities, and facilitating angiogenesis. Additionally, it improves the survival of myeloid progenitor cells. A previous study demonstrated that the intra-renal administration of CXCL12 might offer an effective treatment for kidney fibrosis in cats suffering from chronic kidney disease (CKD).

Protein	Feline Stromal Cell-derived Factor 1 (CXCL12)
Protein Synonym	Stromal Cell-Derived Factor 1; SDF-1; hSDF-1; C-X-C Motif Chemokine 12; Intercrine Reduced in Hepatomas; IRH; hIRH; Pre-B Cell Growth-Stimulating Factor; PBSF; CXCL12; SDF1; SDF1A; SDF1B
Gene ID	<a href="#">493806</a>

## Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at -20°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -20°C for 3 months.

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## User Note

Always centrifuge tubes before opening. Dissolve the lyophilized protein in distilled water. Avoid mixing by vortexing or pipetting. It is not recommended to reconstitute to a concentration < 100 µg/mL. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

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## Reference

Bennington, J. *et al.* Chemokine Therapy in Cats With Experimental Renal Fibrosis and in a Kidney Disease Pilot Study. *Front Vet Sci.* 2021, 8: 646087.

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.