

Datasheet: PMP77

Description:	RECOMBINANT MOUSE SDF-1 ALPHA
Name:	SDF-1 ALPHA
Other names:	CXCL12a
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Functional Assays	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Product Form	Purified recombinant protein - lyophilized
Reconstitution	Reconstitute with 100 µl distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Preparation	Purified recombinant SDF-1 alpha expressed in <i>E.coli</i>
Preservative Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	< 1.0 EU/ug
Approx. Protein Concentrations	0.1 mg/ml after reconstitution

**External Database
Links**

UniProt:

[P40224](#) [Related reagents](#)

Entrez Gene:

[20315](#) Cxcl12 [Related reagents](#)

Synonyms

Sdf1

Product Information

SDF-1 alpha, otherwise known as CXCL12a, is a stromal cell derived CXC chemokine which, together with SDF-1 beta, arises from alternative splicing of the SDF-1 gene, and acts as a chemoattractant for T and B lymphocytes, monocytes and migratory neurons.

SDF-1 binds with high-affinity to the G protein-coupled receptor CXCR4 (fusin), and acts as an inhibitor of the CXCR4-mediated entry of HIV-1 virus into target T-cells.

**Protein Molecular
Weight**

7.9 kDa (68 amino acid residue homodimer)

Activity

Determined by its ability to chemoattract human peripheral blood monocytes, using a concentration of 50-100 ng/ml.

Purity

>98% by SDS PAGE and HPLC analysis

Storage

Prior to reconstitution store at -20°C.
After reconstitution store at -20°C.
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.

**Health And Safety
Information**

Material Safety Datasheet documentation #10268 available at:
10268: <https://www.bio-rad-antibodies.com/uploads/MSDS/10268.pdf>

Regulatory

For research purposes only

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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