

## Datasheet: PMP23

<b>Description:</b>	RECOMBINANT MOUSE STEM CELL FACTOR
<b>Name:</b>	STEM CELL FACTOR
<b>Other names:</b>	SCF
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			1 - 100ng/ml

Where this protein 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 positive/negative controls.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified protein produced in <i>E. coli</i> - lyophilised
<b>Reconstitution</b>	Reconstitute with 0.1ml 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.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Endotoxin Level</b>	<0.1ng/ug
<b>Approx. Protein Concentrations</b>	Total protein concentration 0.1mg/ml after reconstitution.

**External Database  
Links**

**UniProt:**

[P20826](#)

[Related reagents](#)

**Entrez Gene:**

[17311](#)

Kitl

[Related reagents](#)

**Synonyms**

Kitl, Mgf, Sl, Slf

**Product Information**

**Recombinant Mouse stem cell factor (SCF)** is a stromal cell derived cytokine that synergizes with other haemopoietic growth factors to stimulate multiple lineages of progenitors e.g. myeloid, erythroid and lymphoid blood cells. The mouse SCF can be used for both mouse and human haemopoietic cells.

**Protein Molecular  
Weight**

18.3kD (164 amino acid residues)

**Activity**

1 x 10<sup>5</sup> units/mg

**Purity**

>95% by SDS PAGE and HPLC analysis

**ELISA**

This product may be used as the standard in an ELISA assay together with [AAM50](#).

**Western Blotting**

This product may be used as the positive control for western blotting applications with [AAM50](#).

**References**

1. Gilicze, A. *et al.* (2007) HtrA1 is a novel mast cell serine protease of mice and men. [Mol Immunol. 44: 2961-8.](#)
2. Wiener, Z. *et al.* (2003) Mouse embryonic stem cells express histidine decarboxylase and histamine H1 receptors. [Inflamm Res. 52 Suppl 1:S53-4.](#)
3. Casazza, A. *et al.* (2011) Systemic and targeted delivery of semaphorin 3A inhibits tumor angiogenesis and progression in mouse tumor models. [Arterioscler Thromb Vasc Biol. 31: 741-9.](#)
4. Jouneau, A. *et al.* (2000) Plasticity of cadherin-catenin expression in the melanocyte lineage. [Pigment Cell Res. 13: 260-72.](#)

**Storage**

Prior to reconstitution store at +4°C. Following reconstitution store at -20°C.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

3 months from date of reconstitution.

**Health And Safety  
Information**

Material Safety Datasheet documentation #10209 available at:  
10209: <https://www.bio-rad-antibodies.com/uploads/MSDS/10209.pdf>

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