

SCF Protein, Mouse (P.pastoris)

Cat. No.:	HY-P7064
Synonyms:	rMuSCF; Hematopoietic growth factor KL; MGF; Mast Cell Growth Factor
Species:	Mouse
Source:	P. pastoris
Accession:	P20826 (K26-A189)
Gene ID:	17311
Molecular Weight:	Approximately 18.4 kDa

PROPERTIES

AA Sequence	<p>M K E I C G N P V T D N V K D I T K L V A N L P N D Y M I T L N Y V A G M D V L</p> <p>P S H C W L R D M V I Q L S L S L T T L L D K F S N I S E G L S N Y S I I D K L</p> <p>G K I V D D L V L C M E E N A P K N I K E S P K R P E T R S F T P E E F F S I F</p> <p>N R S I D A F K D F M V A S D T S D C V L S S T L G P E K D S R V S V T K P F M</p> <p>L P P V A</p>
Biological Activity	The ED ₅₀ is <10.0 ng/mL as measured by human TF-1 cells, corresponding to a specific activity of >1.0× 10 ⁵ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 50 mM Tris, pH 8.0.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Embryo implantation is a complex process that requires the interaction of embryo and endometrium. Several growth factors and cytokines appear to be involved in this process. Stem cell factor (SCF) and its receptor c-kit regulate the proliferation and survival of germ cells and play an important role in follicular development. During embryonic development, SCF and c-kit are essential for the survival and proliferation of the germ cell and migration toward the gonad. c-kit mRNA is expressed in the primordial germ cells, while the SCF transcript is expressed along their migratory pathway
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toward the genital ridge^[1].

REFERENCES

[1]. Mitsunari M, et al. The potential role of stem cell factor and its receptor c-kit in the mouse blastocyst implantation. Mol Hum Reprod. 1999 Sep;5(9):874-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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