**Proteins** 



## SCF Protein, Human (P.pastoris)

Cat. No.: HY-P7056

Synonyms: rHuSCF; Hematopoietic growth factor KL; MGF; Mast Cell Growth Factor

Species: Source: P. pastoris

P21583-1 (E26-A189) Accession:

Gene ID: 4254

Molecular Weight: Approximately 18.6 kDa

## **PROPERTIES**

**AA Sequence** 

EGICRNRVTN NVKDVTKLVA NLPKDYMITL KYVPGMDVLP SHCWISEMVV QLSDSLTDLL DKFSNISEGL SNYSIIDKLV NIVDDLVECV KENSSKDLKK SFKSPEPRLF TPEEFFRIFN RSIDAFKDFV VASETSDCVV SSTLSPEKDS RVSVTKPFML

PPVA

The ED<sub>50</sub> is <2 ng/mL as measured by human TF-1 cells, corresponding to a specific activity of  $5 \times 10^5$  units/mg. **Biological Activity** 

Lyophilized powder. **Appearance** 

Lyophilized after extensive dialysis against 10 mM acetic acid. **Formulation** 

**Endotoxin Level** <1 EU/µg, determined by LAL method.

Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH<sub>2</sub>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.

Room temperature in continental US; may vary elsewhere. **Shipping** 

## **DESCRIPTION**

Background

The recombinant human stem cell factor (rhSCF) protein specifically enhances the viability of human myeloid leukemia cell line TF-1 and the proliferation and maturation of human mast cell line LAD2 cell. Recombinant human SCF (rhSCF) can maintain hematopoietic stem cells and mast cell in culture, and it is widely tested in research into differentiation from embryonic stem cell (ESC)/induced pluripotent stem cell (iPSC)<sup>[1]</sup>.

REFERENCES	
	of bioactive soluble human stem cell factor (SCF) from recombinant Escherichia coli by coproduction of thioredoxin and efficient purific matography. Protein Expr Purif. 2015 Jan;105:1-7.
	Caution: Product has not been fully validated for medical applications. For research use only.
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