

## Stem Cell Factor Human

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> E. coli	RP1762550010	(0.01 mg)
<b>Species:</b> Human	RP1762551000	(1 mg)

### Description

Recombinant Human SCF produced in E.Coli is a single, non-glycosylated polypeptide chain containing 164 amino acids and having a molecular mass of 18.4 kDa. The SCF is purified by proprietary chromatographic techniques.

### Research topic

Cytokines and chemokines and related molecules

### Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Gly-Ile-Cys.

### Source

E. coli

### Purity

Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Anion-exchange FPLC.
- © Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

### Biological Activity

BioVendor's recombinant human SCF is fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of Human TF-1 cells is < 2 ng/ml, corresponding to a Specific Activity of 5×10<sup>5</sup> IU/mg.

### Endotoxin

Less than 0.1 ng/Cg (IEU/Cg) of rHuSCF.

### Formulation

Lyophilized from a concentrated (1mg/ml) solution in water containing 10mM Acetic acid.

### Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

### Storage, Stability/Shelf Life

Lyophilized rHuSCF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuSCF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

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