Recombinant Human SCF

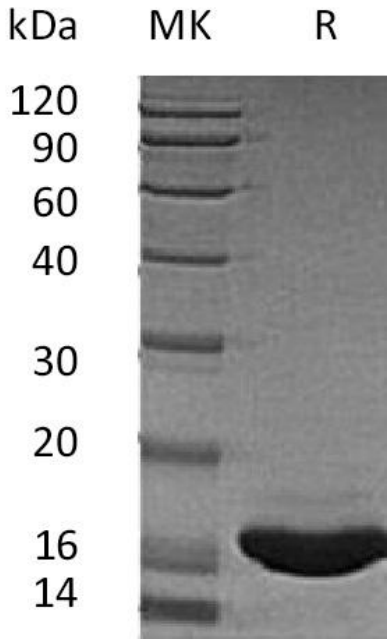
Catalog No.: RP0028

Basic Information

Information	
Source	*E.coli*
Description	Recombinant Human Stem Cell Factor is produced by our E.coli expression system and the target gene encoding Glu26-Ala189 is expressed.
Accession	P21583
Known As	Kit Ligand; Mast Cell Growth Factor; MGF; Stem Cell Factor; SCF; c-Kit ligand; KITLG; MGF; SCF
Predicted Mol Mass	18.6 KDa
Apparent Mol Mass	16 KDa, reducing conditions
Properties	
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.0.
Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Endotoxin	< 0.01 EU/μg as determined by LAL test.
Reconstitution	Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

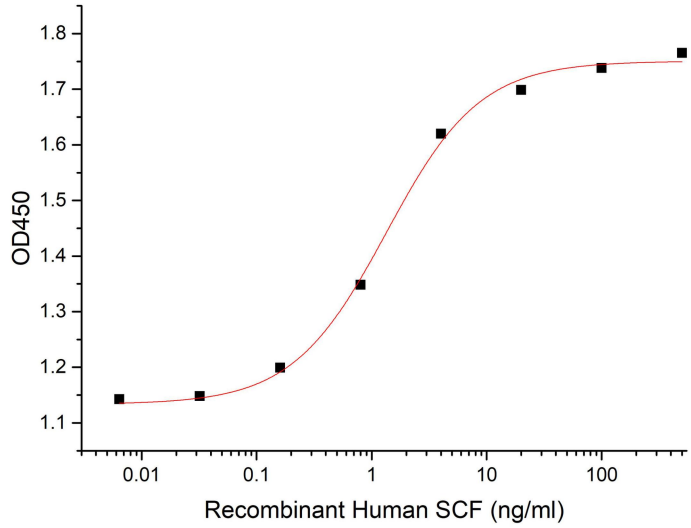
Experimental Data

Purity-SDS-PAGE



Greater than 95% as determined by reducing SDS-PAGE. (QC verified)

Bioactivity-Cell Based Assay



Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 1-5 ng/ml. (QC verified)

Background

Stem Cell Factor (SCF) is a hematopoietic growth factor that exerts its activity at the early stages of hematopoiesis. SCF stimulates the proliferation of myeloid, erythroid, and lymphoid progenitors in bone marrow cultures and has been shown to act synergistically with colony stimulating factors.