

Mouse SCF protein, His tag (active)

Cat. No. GTX00323-pro

Applications Functional Assay**Species** Mouse**Package**

10 µg

Applications

Application Note

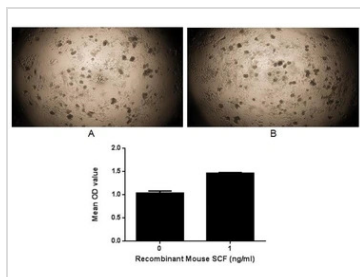
Stem cell factor (also known as SCF, KIT-ligand, KL, or steel factor) is a cytokine that binds to the c-KIT receptor (CD117). SCF can exist both as a transmembrane protein and a soluble protein. This cytokine plays an important role in hematopoiesis (formation of blood cells), spermatogenesis, and melanogenesis. SCF has been shown to stimulate the proliferation of Raw264. 7 cells. To test this effect, Raw264. 7 cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach later, replaced with serum-free overnight, then the medium was replaced with 2% serum standard DMEM containing various concentrations of recombinant mouse SCF. After incubated for 120h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µl of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of Raw264. 7 cells after incubation with SCF for 120h observed by inverted microscope.

Observed MW (kDa) 20 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 10mM PBS (pH7.4) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from PBS (pH7.4), 0.01% SKL, 1mM DTT, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Lys24~Ala219 (NP_001334085.1)**Expression System** E. coli**Purity** > 97%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

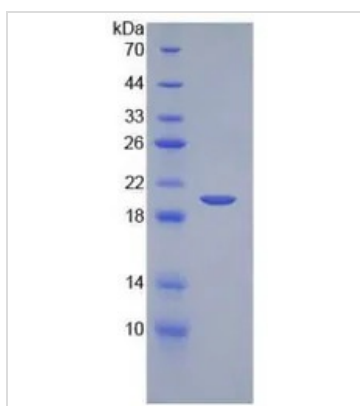
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DATA IMAGES

GTX00323-pro Functional Assay Image

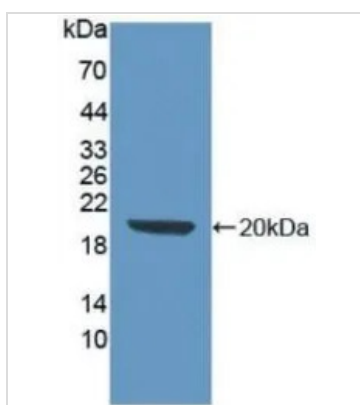
Cell proliferation effect of GTX00323-pro Mouse SCF protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

(A) Unstimulated Raw 264.7 cells cultured in DMEM for 120hrs.

(B) Raw 264.7 cells cultured in DMEM, stimulated with 1 ng/ml SCF for 120hrs.


GTX00323-pro Image

SDS-PAGE analysis of GTX00323-pro Mouse SCF protein (active).


GTX00323-pro Image

WB analysis of GTX00323-pro Mouse SCF protein (active).



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