

Pig SCF protein, His tag (active)

Cat. No. GTX00337-pro

Applications	Functional Assay	Package
Species	Pig	10 µg

Applications

Application Note

Stem cell factor (SCF), also known as mast cell growth factor (MGF), and steel factor (SLF), plays an important role in hematopoiesis, spermatogenesis, and melanogenesis. SCF has been shown to stimulate the proliferation of TF-1 cells. To test this effect, TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 1×10^4 cells/well and incubated for 72h in the presence or absence of various concentrations of SCF at 37°C. Cell proliferation of TF-1 cells after incubation with SCF for 72h was observed by inverted microscope.

Observed MW (kDa) 20 kDa.

Properties

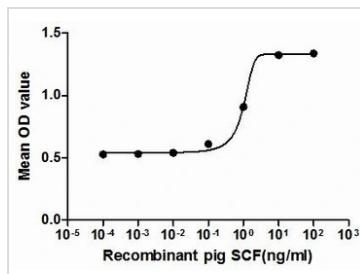
Form	Lyophilized powder
Buffer	Reconstitute with 10mM PBS (pH7.4) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from PBS (pH7.4), 0.01% SKL, 1mM DTT, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Thr25~Ala191 (NP_999434.2)
Expression System	HEK293 cells
Purity	> 95%
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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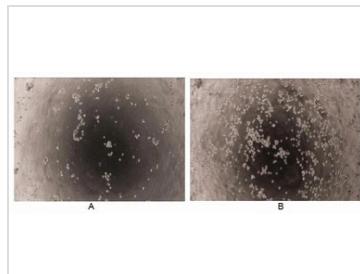
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DATA IMAGES



GTX00337-pro Functional Assay Image

The dose effect curve of GTX00337-pro Pig SCF protein (active) on TF-1 cells. After incubation of Pig SCF protein (active) for 72 hrs, cell proliferation was measured by Cell Counting Kit-8 (CCK-8).

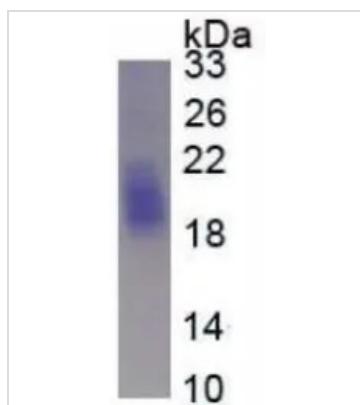


GTX00337-pro Functional Assay Image

Cell proliferation effect of GTX00337-pro Pig SCF protein (active).

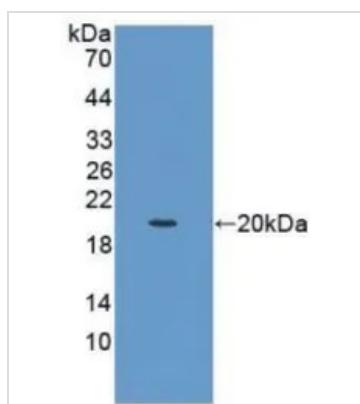
(A) Unstimulated TF-1 cells cultured in RPMI-1640 for 72hrs.

(B) TF-1 cells cultured in RPMI-1640, stimulated with 10 ng/ml SCF for 72hrs.



GTX00337-pro Image

SDS-PAGE analysis of GTX00337-pro Pig SCF protein (active).



GTX00337-pro Image

WB analysis of GTX00337-pro Pig SCF protein (active).



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