

Rev03
Update: Dec,14,2021

DATASHEET

SCF, Rat (HEK 293-expressed)

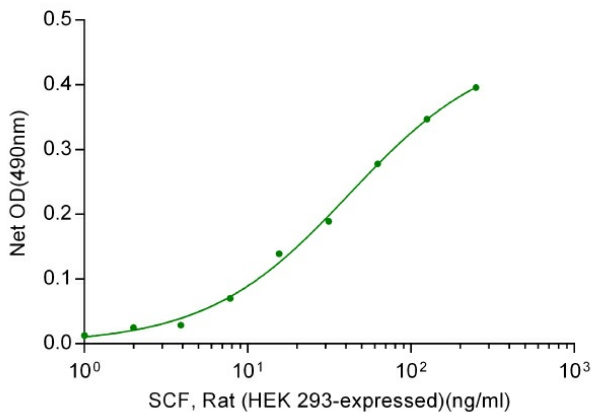
Cat. No.: Z03110

Product Introduction

Species	Rat
Protein Construction	SCF (Gln26-Ala189) Accession # P21581
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 50.0 ng/ml, measured in a proliferation assay using TF-1 Cells.
Expression System	HEK 293
Apparent Molecular Weight	10~20 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples

ED₅₀ < 50 ng/ml, measured in a proliferation assay using TF-1 Cells.



Background

Target Background : 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. It stimulates the proliferation of myeloid, erythroid, and lymphoid progenitors in bone marrow cultures and has been shown to act synergistically with colony stimulating factors. SCF plays an important role in the hematopoiesis during embryonic development. SCF can regulate HSCs in the stem cell niche in the bone marrow. SCF has been shown to increase the survival of HSCs in vitro and contributes to the self-renewal and maintenance of HSCs in-vivo.

Synonyms : Kit ligand; C-Kit Ligand; Mast Cell Growth Factor; MGF; Steel Factor; Stem cell factor

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.