

Recombinant Canine Stem Cell Factor

Catalog No: #AP60219

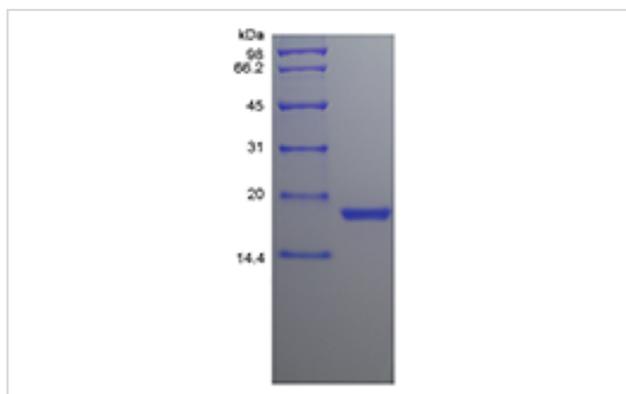
Package Size: #AP60219-1 10ug #AP60219-2 100ug #AP60219-3 500ug

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Description

Product Name	Recombinant Canine Stem Cell Factor
Host Species	Escherichia coli.
Purification	> 96 % by SDS-PAGE and HPLC analyses.
Other Names	Hematopoietic Growth Factor KL, MGF
Calculated MW	Approximately 18.4 kDa, a single non-glycosylated polypeptide chain containing 165 amino acids.
Target Sequence	KGICGKRVTG DVKDVTKLVA NLPKDYKIAL KYVPGMDVLP SHCWISVMVE QLSVSLTDLL DKFSNISEGL SNYSIIDKLV KIVDDLVECT EGYSFENVKK APKSPELRLF TPEEFFRIFN RSIDAFKDL E TVASKSSECV VSSTLSPDKD SRVSVTKPFM LPPVA
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 2 x PBS, pH 7.4.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <input type="checkbox"/> A minimum of 12 months from date of receipt, when stored at ≤-20 °C as supplied. <input type="checkbox"/> 1 month, 2 to 8 °C under sterile conditions after reconstitution. <input type="checkbox"/> 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Images



Background

Stem Cell Factor (SCF) which binds to the c-Kit receptor is produced by fibroblasts and endothelial cells. The soluble and transmembrane forms of the protein are formed by alternative splicing of the same RNA transcript and the presence of both soluble and transmembrane SCF is required for normal hematopoietic function. SCF plays an important role in hematopoiesis, spermatogenesis and melanogenesis and it promotes mast cell adhesion, migration, proliferation, and survival. Soluble canine SCF shares 88 %, 93 %, 86 %, 83 %, 76 %, 76 %, 86 % and 88 % a.a. sequence identity with porcine, feline, bovine, human, mouse, rat, goat and equine SCF, respectively. Cells known to express SCF include endothelial cells, fibroblasts and keratinocytes .

Note: This product is for in vitro research use only and is not intended for use in humans or animals.