

## SCF Protein, Canine

<b>Cat. No.:</b>	HY-P79111
<b>Synonyms:</b>	Kit ligand; Mast cell growth factor; MGF; Stem Cell Factor; SCF; c-Kit ligand; KITLG
<b>Species:</b>	Canine
<b>Source:</b>	E. coli
<b>Accession:</b>	Q06220 (K26-A190)
<b>Gene ID:</b>	403507
<b>Molecular Weight:</b>	Approximately 19 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           K G I C G K R V T D    D V K D V T K L V A    N L P K D Y K I A L    K Y V P G M D V L P            S H C W I S V M V E    Q L S V S L T D L L    D K F S N I S E G L    S N Y S I I D K L V            K I V D D L V E C T    E G Y S F E N V K K    A P K S P E L R L F    T P E E F F R I F N            R S I D A F K D L E    T V A S K S S E C V    V S S T L S P D K D    S R V S V T K P F M            L P P V A         </p>
<b>Biological Activity</b>	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED <sub>50</sub> for this effect is 1.679 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The SCF Protein plays a critical role in promoting the proliferation of mast cells. It has the capacity to enhance the proliferation of both myeloid and lymphoid hematopoietic progenitors when cultured in the bone marrow. Additionally, SCF facilitates cell-cell adhesion. It acts synergistically with other cytokines, likely including interleukins. SCF exists as a homodimer, connected via non-covalent interactions.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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