

Recombinant Canine SCF protein (rFc Tag)

Catalog Number: Eg4548

Basic Information

Species:
Canine**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Canine SCF protein Lys26-Gln215 (Accession# Q06220) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

403507

Accession:

Q06220

Predicted Molecular Mass:

47.3 kDa

SDS-PAGE:

50-65 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Stem cell factor (SCF), also known as mast cell growth factor, steel factor and Kit ligand, is a haematopoietic growth factor. SCF is a critical protein with key roles in the cell such as haematopoiesis, gametogenesis and melanogenesis. SCF activates multiple signalling pathways by binding to the c-kit receptor. SCF and its receptor, c-kit ligand (KL), are particularly upregulated in human malignancies, including gastrointestinal stromal tumours (GISTs), breast cancer, haematopoietic malignancies, myeloid leukaemia and gliomas. The SCF/c-KIT system also plays an important role in cell fate decision and its activity is known to control cell proliferation, differentiation, survival and apoptosis.

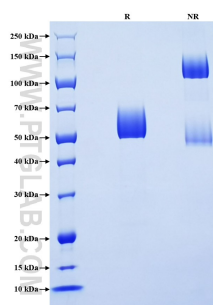
References

- 1.Vazquez-Mellado MJ. et al. (2017) Vitam Horm. 105:273-296.
- 2.Figueira MI. et al. (2017) Cancer Lett. 405:10-21.
- 3.Yasuda A. et al. (2006) Mol Cancer. 5:46.

Synonyms

KITLG, c-Kit ligand, Kit ligand, Mast cell growth factor, MGF

Selected Validation Data



Purity of Recombinant Canine SCF was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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