

For Research Use Only

Recombinant Mouse CD117/c-kit protein (His Tag)



Catalog Number: Eg0883

Basic Information

Species:
Mouse

Purity:
>95 %, SDS-PAGE

Tag:
His Tag

EC50:
2-8 ng/mL

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse CD117 protein Ser25-Pro527 (Accession# P05532-1) with a His tag at the C-terminus.

GeneID:
16590

Accession:
P05532-1

Predicted Molecular Mass:
56.8 kDa

SDS-PAGE:
65-85 kDa, reducing (R) conditions

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

Biological Activity

Immobilized Mouse CD117 (His tag) at 1 μ g/mL (100 μ L/well) can bind Mouse SCF (His tag) with a linear range of 2-8 ng/mL.

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

CD117, also known as c-Kit and SCFR, is a transmembrane protein with tyrosine kinase activity encoded by the oncogene c-kit. It is a member of the type III receptor tyrosine kinase family, which also includes CSF-1R, PDGFR β , PDGFR α , and FLT3. CD117 is expressed on hematopoietic stem cells and progenitor cells, mast cells, and is also found in a wide range of non-haemopoietic cell types (including melanocytes, germ cells, astrocytes, renal tubules, breast glandular epithelial cells, sweat glands, and interstitial cells of Cajal). CD117 plays an important role in early haemopoiesis. It is also involved in pigmentation, fertility, gut movement, and some aspects of the nervous system.

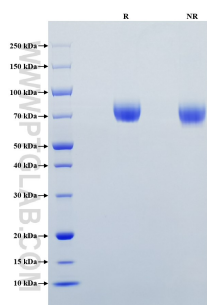
References

- 1.Y Yarden, et al. (1987) EMBO J. 6(11):3341-51.
- 2.L K Ashman (1999) Int J Biochem Cell Biol. 31(10):1037-51.
- 3.Johan Lennartsson (2012) Physiol Rev. 92(4):1619-49.
- 4.Brittini M Foster, et al. (2018) Biomedicines. 6(1):31.

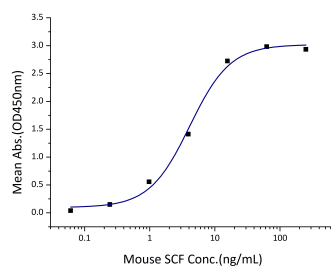
Synonyms

CD117/c-kit, CD117, Kit, c KIT

Selected Validation Data



Purity of Recombinant Mouse CD117 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.



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