For Research Use Only

Recombinant Mouse MerTK protein (rFc Tag) (HPLC verified)

www.ptglab.com

Catalog Number: Eg2866

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse MerTK protein Glu23-Phe498 (Accession# Q60805) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
17289

Accession:
Q60805

Predicted Molecular Mass:
78.2 kDa

SDS-PAGE:
90-110 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

MerTK (Mer tyrosine kinase), also known as RP38, c-Eyk, c-mer, and Tyro12, was first cloned from a human B lymphoblastoid expression library (PMID:8086340) and is one of the TAM (Tyro-3, Axl, and MerTK) receptor tyrosine kinase (RTK) family (PMID:23833304). Although this RTK, like others, can promote tumor cell proliferation to some extent, MERTK primarily lends tumor cells crucial survival advantages while promoting invasion, migration and metastasis, drug resistance, and, in the innate immune system, suppressing anti-tumor immunity (PMID:32417270). The multiple MERTK species observed are likely due to posttranslational modifications (PMID: 23585477).

References

1. Graham DK. et al. (1994). Cell Growth Differ. 5(6):647-57.
2. Cummings CT. et al. (2013). Clin Cancer Res. 1;19(19):5275-80.
3. Huelse JM. et al. (2020). Pharmacol Ther. 213:107577.
4. Schlegel J. et al. (2013). J Clin Invest. 123(5):2257-67.

Synonyms

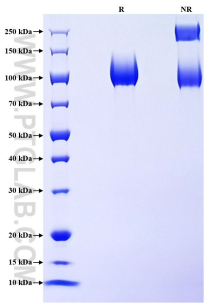
EC:2.7.10.1, Mer, Proto-oncogene c-Mer, Receptor tyrosine kinase MerTK, Tyrosine-protein kinase Mer

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

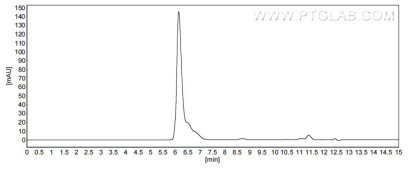
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data



Purity of Recombinant Mouse MerTK 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.



The purity of Mouse MerTK was greater than 90% as determined by SEC-HPLC.