

Recombinant Human Tie2 protein (rFc Tag)

Catalog Number: Eg3367

Basic Information

Species:
Human**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 Human Tie2 protein Ala23-Leu748 (Accession# Q02763-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

7010

Accession:

Q02763-1

Predicted Molecular Mass:

107.3 kDa

SDS-PAGE:

110-140 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

Tie2 (also known as TEK) is a tyrosine-protein kinase expressed almost exclusively on endothelial cells. It contains two immunoglobulin-like domains, three epidermal growth factor (EGF)-like domains and three fibronectin type III repeats. Tie2 acts as cell-surface receptor for ANGPT1, ANGPT2 and ANGPT4 and regulates angiogenesis, endothelial cell survival, proliferation, migration, adhesion and cell spreading, reorganization of the actin cytoskeleton, but also maintenance of vascular quiescence. Mutations in the gene of Tie2 are associated with inherited venous malformations of the skin and mucous membranes. Tie2 can also exist as a soluble form (sTie2) which is released from endothelial cells and present in human blood. The concentration of sTie2 is increased in a range of diseases, including peripheral arterial disease and myocardial infarction.

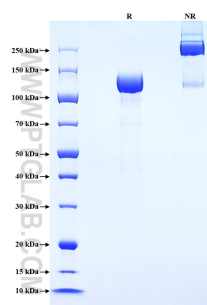
References

1. Davis S. et al. (1996). Cell. 87(7):1161-1169.
2. Reusch P. et al. (2001). Angiogenesis. 4(2):123-131.
4. Nätyinki M. et al. (2015). Hum Mol Genet. 24(22):6374-6389.
5. Alawo DOA. et al. (2017). Sci Rep. 7(1):3658.

Synonyms

TEK, Angiopoietin 1 receptor, Angiopoietin-1 receptor, CD202B, EC:2.7.10.1

Selected Validation Data



Purity of Recombinant Human Tie2 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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