

Recombinant Human Tie1 protein (mFc Tag)

Catalog Number: Eg3964

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human Tie1 protein Ala22-Gln760 (Accession# P35590-1) with a mouse IgG Fc tag at the C-terminus.

GeneID:

7075

Accession:

P35590-1

Predicted Molecular Mass:

106.6 kDa

SDS-PAGE:

110-120 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

Tyrosine-protein kinase receptor Tie-1 (Tie1) is an endothelial cell-specific orphan receptor that plays a critical role in angiogenesis and vascular remodeling. It is involved in the modulation of angiopoietin function and is essential for the agonist activity of angiopoietin 1 (ANG1) and autocrine angiopoietin 2 (ANG2). Tie1 interacts with Tie2, and this interaction is modulated by integrin $\alpha 5 \beta 1$, which is crucial for the signaling pathways that control vascular stability and inflammation. It has been shown to localize with Tie2 at the cell surface and within the endothelial junctions, playing a role in the subcellular localization dynamics of the Ang-Tie signaling pathway. It also has been implicated in atherosclerosis, tumorigenesis, and inflammatory vascular remodeling.

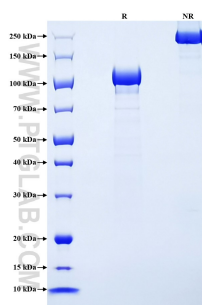
References

- 1.Korhonen EA. et al. (2016). J Clin Invest. 126(9):3495-3510.
- 2.Zhang Y. et al. (2021). NPJ Syst Biol Appl. 7(1):34.
- 3.Seegar TC. et al. (2010). Mol Cell. 37(5):643-655.
- 4.D'Amico G. et al. (2014). J Clin Invest. 124(2):824-834.

Synonyms

EC:2.7.10.1, JTK14, TIE, Tyrosine-protein kinase receptor Tie-1

Selected Validation Data



Purity of Recombinant Human Tie1 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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.