Recombinant Human Tie-2 Protein(His Tag)

Catalog Number: PDMH100291

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

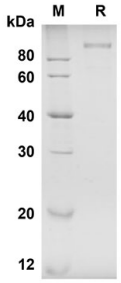
Description

Species	Human
Source	Mammalian-derived Human Tie-2 proteins Ala23-Leu748,with an C-terminal Fc
Calculated MW	104.7 kDa
Observed MW	105 kDa
Accession	Q02763
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human Tie-2 proteins , 2μg/lane of Recombinant Human Tie-2 proteins was resolved with SDS-PAGE under reducing conditions , showing bands at 105 KD

Background

TEK , or TIE-2 , is an endothelial cell-specific receptor tyrosine kinase (RTK) that is known as a functioning molecule of vascular endothelial cells. TEK comprises a subfamily of RTK with TIE , and these two receptors play critical roles in vascular maturation , maintenance of integrity and remodeling. Targeted mutagenesis of both Tek and its agonistic ligand , Angiopoietin-1 , result in embryonic lethality , demonstrating that the signal transduction pathways mediated by this receptor are crucial for normal embryonic development. TEK signaling is indispensable for the development of the embryonic vasculature and suggests that TEK signaling may also be required for the development of the tumor vasculature.

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