

Recombinant Human Tie2/CD202b Protein (His & Fc Tag)

Catalog No. PKSH031473

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

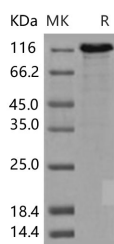
Description

Synonyms	CD202B;TIE-2;TIE2;VMCM;VMCM1
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Lys 745
Accession	NP_000450.2
Calculated Molecular Weight	108.5 kDa
Observed molecular weight	125-135 kDa
Tag	C-His-Fc
Bioactivity	Immobilized recombinant human Angiopoietin-2 at 10 µg/ml (100 µl/well) can bind Human Tie2 / Fc chimera with a range of 0.2-20 µg/ml.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg 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°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

TEK, or TIE-2, is an endothelial cell-specific receptor tyrosine kinase (RTK) that is known as a functioning molecule of

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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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