Recombinant Human EphB4/HTK Protein

Catalog Number: PKSH031737

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

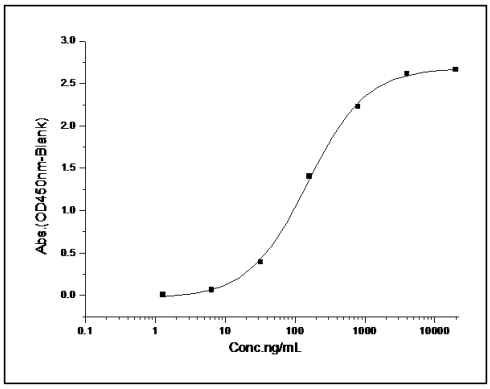
Description

Species	Human
Source	HEK293 Cells-derived Human EphB4/HTK protein Met 1-Ala 539
Calculated MW	57.7 kDa
Observed MW	65-70 kDa
Accession	NP_004435.3
Bio-activity	Immobilized human EphB4 at 2 μg/ml (100 μl/well) can bind human EphrinB2 with a linear range of 1-125 ng/ml.

Properties

Purity	> 95 % 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 NaCl, 50mM Tris, pH 7.5 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 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



Measured by its binding ability in a functional ELISA. Immobilized human EphB4 at 2 μg/ml (100 μl/well) can bind human EphrinB2 with a linear range of 1-125 ng/ml.

Background

Ephrin type-B receptor 4 is a protein that in humans is encoded by the EPHB4 gene. It is a single-pass type I membrane protein belonging to the ephrin receptor subfamily of protein kinase superfamily. Members of the ephrin and Eph family are local mediators of cell function through largely contact-dependent processes in development and in maturity. Furthermore; EphB4 protein and the corresponding ligand Ephrin-B2 contribute to tumor growth in various human tumors. EphB4 protein has tumor suppressor activities and that regulation of cell proliferation; extracellular matrix remodeling; and invasive potential are important mechanisms of tumor suppression. Therefore; Ephrin-B2/EphB4 may be recognized as a novel prognostic indicator for cancers.

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