Recombinant Human EphB1/EPHT2 Protein (aa 1-540, His

Tag)

Catalog Number: PKSH030955



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

Description

Synonyms Ephrin Type-A Receptor 7;EPH Homology Kinase 3;EHK-3;EPH-Like Kinase

11;EK11;hEK11;EPHA7;EHK3;HEK11

Species Human

Expression Host

Sequence

Met 1-Pro 540

Accession

P54762-1

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-Pro 540

60.0 kDa

60.0 kDa

C-His

Bioactivity Immobilized human EPHB1-His at 10 μg/ml (100 μl/well) can bind human

EFNB1-Fc2h with a linear ranger of 3. 125-200 ng/mL. Immobilized human EPHB1-His at $10 \mu g/ml$ ($100 \mu l/well$) can bind human EFNB2-Fch with a linear

ranger of 0.3125-20 ng/mL.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per ug 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 PBS, pH 7.4, 5% glycerol

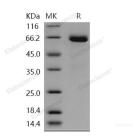
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 95 % as determined by reducing SDS-PAGE.

Background

Ephrin type-B receptor 1, also known as EphB1, belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family which 16 known receptors (14 found in mammals) are involved: EPHA1, EPHA2, EPHA3, EPHA4, EPHA5, EPHA6, EPHA7, EPHA8, EPHA9, EPHA10, EPHB1, EPHB2, EPHB3, EPHB4, EPHB5, EPHB6. EphB2 receptor

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tyrosine kinase phosphorylates syndecan-2 and that this phosphorylation event is crucial for syndecan-2 clustering and spine formation. The Eph family of receptor tyrosine kinases (comprising EphA and EphB receptors) has been implicated in synapse formation and the regulation of synaptic function and plasticity6. Ephrin receptors are components of cell signalling pathways involved in animal growth and development, forming the largest sub-family of receptor tyrosine kinases (RTKs). Ligand-mediated activation of Ephs induce various important downstream effects and Eph receptors have been studied for their potential roles in the development of cancer. EphB receptor tyrosine kinases are enriched at synapses, suggesting that these receptors play a role in synapse formation or function. We find that EphrinB binding to EphB induces a direct interaction of EphB with NMDA-type glutamate receptors. This interaction occurs at the cell surface and is mediated by the extracellular regions of the two receptors, but does not require the kinase activity of EphB.

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