Recombinant Mouse EphB3/HEK2 Protein (His Tag)

Catalog Number: PKSM040600

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

ouse EphB3/HEK2 protein Met 1-Thr 537, with an C-terminal B3 at 2 μg/ml (100 μl/well) can bind mouse EFNB1 with a g/ml. reducing SDS-PAGE. otein as determined by the LAL method.
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oteins are stable for up to 12 months when stored at -20 to -80
a solution can be stored at 4-8°C for 2-7 days. Aliquots of
e stable at $< -20^{\circ}$ C for 3 months.
as lyophilized powder which is shipped with ice packs.
20mM Tris, 150mM NaCl, pH 7.5, 5% trehalose, 5% mannitol
ose, mannitol and 0.01% Tween 80 are added as protectants
c buffer information in the printed manual.

Data

KDa	MK	R
116 66.2	-	_
45.0 35.0	Ξ	
25.0	-	
18.4 14.4	1	

> 94 % as determined by reducing SDS-PAGE.

Background

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Ephrin type-B receptor 3, also known as EphB3 or HEK2, belongs to the ephrin receptor subfamily of the proteintyrosine 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. 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.