

Recombinant Human EphA7/EHK3 Protein (His & GST Tag)



Catalog Number: PKSH030354

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

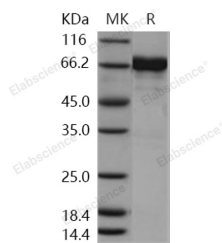
Description

Synonyms	Ephrin Type-A Receptor 7;EPH Homology Kinase 3;EHK-3;EPH-Like Kinase 11;EK11;hEK11;EPA7;EHK3;HEK11
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Gly579-Val998
Accession	NP_004431
Calculated Molecular Weight	75.2 kDa
Observed molecular weight	76 kDa
Tag	N-His-GST
Bioactivity	The specific activity was determined to be 9.5 nmol/min/mg using Poly(Glu:Tyr) 4:1 as substrate.

Properties

Purity	> 94 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as sterile solution of 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol
Reconstitution	Not Applicable

Data



> 94 % as determined by reducing SDS-PAGE.

Background

Ephrin type-A receptor 7, also known as EphA7, 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. 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. Eph receptor-mediated signaling, which is triggered by ephrins⁷, probably modifies the properties of synapses during synaptic activation and remodeling. 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. Down-regulation of EphA7 secondary to

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hypermethylation has been reported in colorectal cancer. The expression of EphA7 was reduced in all tested gastric cancer cell lines; however, there is marked variability in expression among gastric carcinoma specimens. EphA7 may have roles in the pathogenesis and development of gastric carcinomas.

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