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Recombinant Human EphA2 Protein (aa 585-976, His & GST Tag)

Catalog No. PKSH030323

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

Description

Synonyms Ephrin type-A receptor 2;Epithelial cell kinase;Tyrosine-protein kinase receptor

ECK;EPHA2;ARCC2;CTPA;CTPP1;CTRCT6;ECK

Species Human

Expression Host Baculovirus-Insect Cells

Sequence Leu 585-Ile 976

AccessionP29317Calculated Molecular Weight72.1 kDaObserved molecular weight62 kDaTagN-His-GST

Bioactivity The specific activity was determined to be 50 nmol/min/mg using Poly(Glu:Tyr) 4:1

as substrate.

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 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

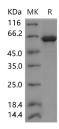
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as sterile solution of 20mM Tris, 500mM NaCl, 3mM DTT, pH 8.5, 10%

glycerol

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Eph receptor A2 is a member of the ephrin receptor subfamily of the protein-tyrosine kinase family. The Eph receptors' corresponding family of ligands are the ephrins anchored to cell surfaces. The ephrins and Eph receptors are implicated as positional labels that may guide the development of neural topographic maps. They have also been found implicated in

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embryonic patterning, neuronal targeting, vascular development and adult neovascularization. The large family of ligands and receptors may make a major contribution to the accurate spatial patterning of connections and cell position in the nervous system. Furthermore, elevated expression of Eph receptors and ephrin ligands is associated with tumors and associated tumor vasculature, suggesting the Eph receptors and ephrin ligands also play critical roles in tumor angiogenesis and tumor growth. Unlike most Eph kinases, which are primarily expressed during development, EphA2 is primarily found in adult human epithelial cells. The cellular functions of EphA2 may be regulating cell growth, survival, migration, and angiogenesis. Unlike other receptor tyrosine kinases, ligand binding is not necessary for EphA2. Rather, the ligand appears to regulate EphA2 subcellular localization and its interactions with downstream adapter and signaling proteins. Eph receptor A2(EphA2) has been demonstrated to critically regulate tumor cell growth, migration and invasiveness. Eph receptor A2(EphA2) is frequently overexpressed and functionally altered in aggressive tumor cells, and that these changes promote metastatic character.

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