

Recombinant Human EphA1 Protein (His Tag)

Catalog Number:PKSH033690



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

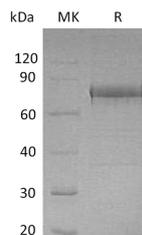
Description

Synonyms	Ephrin type-A receptor 1;hEpha1;EPH tyrosine kinase;EPH tyrosine kinase 1;Erythropoietin-producing hepatoma receptor;Tyrosine-protein kinase receptor EPH;EPHA1;EPH;EPHT;EPHT1
Species	Human
Expression Host	HEK293 Cells
Sequence	Lys26-Glu547
Accession	AAI30292.1
Calculated Molecular Weight	57.4 kDa
Observed molecular weight	70-85 kDa
Tag	C-His

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 a 0.2 µm filtered solution of PBS, pH 7.4. 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-A receptor 1/EphA1 is a glycosylated member of the Eph family of transmembrane receptor tyrosine kinases. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. The A and B classes of Eph proteins are distinguished by Ephrin ligand binding preference but have a common structural organization. Eph-Ephrin interactions are widely involved in the regulation of cell migration, tissue morphogenesis, and cancer progression. EphA1 can form pH sensitive cis-homodimers on the cell surface. Membrane-bound or clustered Ephrin ligands interact with EphA1 and activate its

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kinase domain which is capable of Ser, Thr, and Tyr phosphorylation. Reverse signaling is propagated through the Ephrin ligand. EphA1 is widely expressed in differentiated epithelial cells, particularly in bone marrow, spleen, thymus, and testes. EphA1 is upregulated or downregulated in a variety of human carcinomas and is implicated in tumor invasiveness.

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