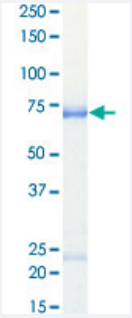
Bioactive

EPHA1 (Human) Recombinant Protein

Catalog # P5545 Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human EPHA1 (NP_005223.3, 586 a.a. - 976 a.a.) partial recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	72
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	82 % by SDS-PAGE/CBB staining

Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluoresce nce-labeled substrate and Mg(or Mn)/ATP. The phosphorylated and unphosphorylated substrates we re separated and detected by LabChip 3000. Substrate: Blk/Lyntide. ATP: 100 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — EPHA1

Entrez GeneID	2041
Protein Accession#	NP_005223.3
Gene Name	EPHA1
Gene Alias	EPH, EPHT, EPHT1, MGC163163
Gene Description	EPH receptor A1
Omim ID	179610
Gene Ontology	Hyperlink
Gene Summary	This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in th e nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an e xtracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin rece ptors are divided into 2 groups based on the similarity of their extracellular domain sequences an d their affinities for binding ephrin-A and ephrin-B ligands. This gene is expressed in some human cancer cell lines and has been implicated in carcinogenesis. [provided by RefSeq

Other Designations	eph tyrosine kinase 1|ephrin receptor EphA1|ephrin type-A receptor 1|erythropoietin-producing he patoma amplified sequence|oncogene EPH|soluble EPHA1 variant 1|soluble EPHA1 variant 2|tyr osine-protein kinase receptor EPH

Pathway

- Axon guidance

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema