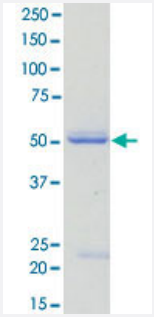
Bioactive

EPHA5 (Human) Recombinant Protein

Catalog # P5706 Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human EPHA5 (NP_004430.3, 662 a.a. - 948 a.a.) partial recombinant protein with GST tag expressed in Baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	59
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	89 % by SDS-PAGE/CBB staining.

Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip™3000. Substrate : Blk/Lyntide. ATP: 100 μM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 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 — EPHA5

Entrez GeneID	2044
Protein Accession#	NP_004430.3
Gene Name	EPHA5
Gene Alias	CEK7, EHK1, HEK7, TYRO4
Gene Description	EPH receptor A5
Omim ID	600004
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 the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Two transcript variants encoding different isoforms have been found for this gene.

Other Designations	Eph homology kinase-1|ephrin receptor EphA5|ephrin type-A receptor 5|receptor protein-tyrosine kinase HEK7|tyrosine-protein kinase receptor EHK-1

Pathway

- Axon guidance

Disease

- Tobacco Use Disorder