

## EPHA5 Protein, Human (HEK293, His)

Cat. No.:	HY-P77930
Synonyms:	EHK-1; EK7; BSK; EHK1; HEK7; TYRO4; EphA5; Rek7; TYRO4HEK7CEK7
Species:	Human
Source:	HEK293
Accession:	P54756 (A26-P573)
Gene ID:	2044
Molecular Weight:	68-80 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

#### Background

The EPHA5 protein, a receptor tyrosine kinase, engages in promiscuous binding to GPI-anchored ephrin-A family ligands on adjacent cells, initiating contact-dependent bidirectional signaling. The downstream pathway originating from the receptor is known as forward signaling, while the pathway downstream of the ephrin ligand is termed reverse signaling. Among GPI-anchored ephrin-A ligands, EFNA5 is likely the cognate/functional ligand for EPHA5. EPHA5 functions as an axon guidance molecule during development and may be involved in shaping the retinotectal, entorhino-hippocampal, and hippocamposeptal pathways. Together with EFNA5, it plays a role in synaptic plasticity in the adult brain by regulating synaptogenesis. Beyond its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells, contributing to the regulation of glucose-stimulated insulin secretion.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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