

Product datasheet for **TP726670**

EPHA8 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human EphA8 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Glu31→Thr542
Tag:	C-6His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mMPB,150mMNaCl,pH7.4.
Note:	Recombinant Human Ephrin type-A receptor 8 is produced by our Mammalian expression system and the target gene encoding Glu31→Thr542 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	2046
UniProt ID:	P29322
Synonyms:	EEK; EK3; HEK3; EPH- and ELK-related kinase; EPH- and ELK-related tyrosine kinase; EPH receptor A8; EphA8; EPH-like kinase 3; ephrin type-A receptor 8; Hek3



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Summary:

EphA8, also known as Hek3 and Eek, is a 120 kDa glycosylated member of the Eph family of transmembrane receptor tyrosine kinases. 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. Receptor tyrosine kinase which binds promiscuously GPI-anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The GPI-anchored ephrin-A EFNA2, EFNA3, and EFNA5 are able to activate EPHA8 through phosphorylation. With EFNA5 may regulate integrin-mediated cell adhesion and migration on fibronectin substrate but also neurite outgrowth. During development of the nervous system plays also a role in axon guidance. Downstream effectors of the EPHA8 signaling pathway include FYN which promotes cell adhesion upon activation by EPHA8 and the MAP kinases in the stimulation of neurite outgrowth.

Protein Families:

Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways:

Axon guidance