

Active Recombinant Mouse Eph Receptor A5, His-tagged

Cat. No. Epha5-457M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Epha5 protein was expressed in Murine myeloma cell line. Ser58-Pro412, with a C terminal 6 His tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	58-412 a.a.
Description	EphA5, also known as Ehk1, Bsk, Cek7, Hek7, and Rek7, is a member of the Eph receptor tyrosine kinase family which binds members of the Ephrin ligand family. The A and B class Eph proteins have a common structural organization. Activation of kinase activity occurs after membrane bound or clustered ligand recognition and binding. Reverse signaling is propagated through the Ephrin ligand. The mouse EphA5 cDNA encodes an 877 amino acid (aa) precursor that includes a 26 aa signal sequence, a 386 aa extracellular domain (ECD), a 21 aa transmembrane segment, and a 444 aa cytoplasmic domain. The ECD contains an N-terminal globular domain, a cysteine-rich domain, and two fibronectin type III domains.
Form	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
N-terminal Sequence	Ser58
Molecular Weight	40.4 kDa

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Activity	Measured by its binding ability in a functional ELISA. Immobilized rmEpha5 at 2 µg/mL (100 µL/well) can bind rmEphrinA2/Fc Chimera with a linear range of 0.16 to 10 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, 20 to 70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, 20 to 70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Epha5 Eph receptor A5 [Mus musculus]
Official Symbol	Epha5
Synonyms	Epha5; Eph receptor A5; bsk; Cek7; Ehk1; Els1; Hek7; Rek7; AI854630; AW125296; ephrin type-A receptor 5; CEK-7; EHK-1; eck-like sequence 1; EPH homology kinase 1; brain-specific kinase; EC 2.7.10.1
Gene ID	13839
mRNA Refseq	NM_007937
Protein Refseq	NP_031963
UniProt ID	Q3V344

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Chromosome Location	5
Pathway	Axon guidance
Function	ATP binding; GPI-linked ephrin receptor activity; ephrin receptor activity; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity; transferase activity, transferring phosphorus-containing groups; transmembrane receptor protein tyrosine kinase activity

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