

Recombinant Human EPHA4

Cat. No. EPHA4-26439TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 610-887 of human Eph receptor A4 with N-terminal proprietary tag expressed in a Baculovirus infected Sf9 cell expression system, 58kDa.
Species	Human
ProteinLength	610-887 a.a.
Description	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.
Tissue specificity	Ubiquitous.
Biological activity	Specific activity of Eph receptor A4 was determined to be 83 nmol/min/mg as per activity assay protocol.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily. Contains 2 fibronectin type-III domains. Contains 1 protein kinase domain. Contains 1 SAM (sterile alpha motif) domain.

GENE INFORMATION

Gene Name	EPHA4 EPH receptor A4 [Homo sapiens]
Official Symbol	EPHA4
Synonyms	EPHA4; EPH receptor A4; EphA4 , TYRO1; ephrin type-A receptor 4; Hek8;
Gene ID	2043
mRNA Refseq	NM_004438
Protein Refseq	NP_004429
MIM	602188
Uniprot ID	P54764
Chromosome Location	2q36.3
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem;

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EPHA forward signaling, organism-specific biosystem; EphrinA-EPHA pathway, organism-specific biosystem;

Function

ATP binding; DH domain binding; GPI-linked ephrin receptor activity; PH domain binding; ephrin receptor binding;

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