

Recombinant Human Ephrin-A4, GST-Tagged

Cat. No. EFNA4-4336H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Ephrin A4 Human Recombinant full length protein expressed in E.coli, shows a 46 kDa SDS-PAGE (Including GST tag). The Ephrin A4 is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
Description	Ephrin A4 is a member of the ephrin (EPH) family. Ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases. Based upon their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are attached to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. Class A ephrins are linked to the membrane by a GPI linkage and bind primarily to EphA receptors; Class B ephrins contain a membrane-spanning region and bind primarily to EphB receptors. Both ephrins and Eph receptors are largely expressed throughout the ectoderm, mesoderm, and endoderm of vertebrate embryos. EFNA binds to the EPHA2, EPHA4, EPHA5, EPHA6, and EPHA7 receptors. Two transcript variations which encode different isoforms were identified through sequence analysis. During development the Eph receptor and their membrane-attached ligands, ephrins, show diverse expression patterns. The ephrins and EPH-related receptors mediate developmental events, principally in the nervous system and in erythropoiesis. The critical roles of Eph and ephrins during development imply involvement of these genes in congenital disorders affecting the nervous system and other tissues. Ephrins

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and Eph receptors are possibly involved in carcinogenesis.

Form	Ephrin A4 protein in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Physical Appearance	Sterile Filtered clear solution.
Storage	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please prevent freeze-thaw cycles.
Pathways	Axon guidance
Full Length	Full L.

GENE INFORMATION

Gene Name	EFNA4 ephrin-A4 [Homo sapiens]
Official Symbol	EFNA4
Synonyms	EFNA4; ephrin-A4; EFL4; EPLG4; LERK4; MGC125826; ligand of eph-related kinase 4; eph-related receptor tyrosine kinase ligand 4; LERK-4; OTTHUMP00000033237; OTTHUMP00000033238; ephrin A4
Gene ID	1945
mRNA Refseq	NM_005227
Protein Refseq	NP_005218
MIM	601380

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UniProt ID	P52798
Chromosome Location	1q21-q22
Function	transmembrane-ephrin receptor activity

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