

Recombinant Human EFNA1, His-tagged

Cat. No. EFNA1-28470TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Ephrin A1 with an N terminal His tag; 185 amino acids with tag, Predicted MWt 21.6 kDa.
Species	Human
Source	E.coli
ProteinLength	164 amino acids
Description	This gene encodes a member of the ephrin (EPH) family. The ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. This gene encodes an EFNA class ephrin which binds to the EPHA2, EPHA4, EPHA5, EPHA6, and EPHA7 receptors. Two transcript variants that encode different isoforms were identified through sequence analysis.
Conjugation	HIS
Molecular Weight	21.600kDa inclusive of tags
Tissue specificity	Brain. Down-regulated in primary glioma tissues compared to the normal tissues. The

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	soluble monomeric form is expressed in the glioblastoma multiforme (GBM) and breast cancer cells (at protein level).
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol, 2.4% Urea
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMDRHTVFWNSSNPKFRNEDYTIHVQLNDYVDIICPH YEDHSVADAAMEQYILYLVEHEEYQLCQPQSKDQVRWQCNRPSAKHGPEKLSEKF QRFTPFTLGKEFKEGHSYYYISKPIHQHEDRCLRLKVTVSGKITHSPQAHVNPQEKRLA LAADDPEVRVLHSIGHS
Sequence Similarities	Belongs to the ephrin family.

GENE INFORMATION

Gene Name	EFNA1 ephrin-A1 [Homo sapiens]
Official Symbol	EFNA1
Synonyms	EFNA1; ephrin-A1; EPLG1, TNFAIP4; ECKLG; LERK1;
Gene ID	1942
mRNA Refseq	NM_182685

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Protein Refseq	NP_872626
MIM	191164
Uniprot ID	P20827
Chromosome Location	1q21-q22
Pathway	Arf6 signaling events, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; EPHA forward signaling, organism-specific biosystem; EPHA2 forward signaling, organism-specific biosystem;
Function	ephrin receptor binding; protein binding; receptor binding;

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