Recombinant Human EFNA5 protein, His & T7-tagged

Cat. No. EFNA5-1133H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EFNA5 aa. (Gln21~Asn203 (Accession # P52803) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gln21~Asn203
Description	Ephrin-A5, a member of the ephrin gene family, prevents axon bundling in cocultures of cortical neurons with astrocytes, a model of late stage nervous system development and differentiation. The EPH and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, particularly in the nervous system. EPH receptors typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin ligands and receptors have been named by the Eph Nomenclature Committee (1997). 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. The Eph family of receptors are similarly divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 24.7kDa.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.5.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	EFNA5 ephrin A5 [Homo sapiens (human)]
Official Symbol	EFNA5

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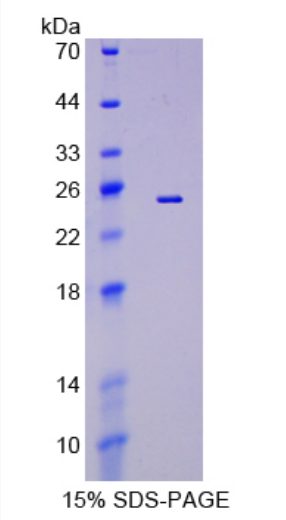
Synonyms	EFNA5; ephrin A5; AF1; EFL5; RAGS; EPLG7; GLC1M; LERK7; ephrin-A5; AL-1; LERK-7; eph-related receptor tyrosine kinase ligand 7
Gene ID	1946
mRNA Refseq	NM_001962.2
Protein Refseq	NP_001953.1
UniProt ID	P52803
SDS-PAGE	 15% SDS-PAGE

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