EFNA5 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	EFNA5, Recombinant Protein
Full Product Name	Recombinant Human EFNA5 Protein
Product Gene Name	EFNA5 recombinant protein
Product Synonym Names	EPLG7; LERK7; Ephrin-A5; AL-1; EPH-related receptor tyrosine kinase ligand 7; LERK-7
Sequence	QDPGSKAVAD RYAVYWNSSN PRFQRGDYHI DVCINDYLDV FCPHYEDSVP EDKTERYVLY MVNFDGYSAC DHTSKGFKRW ECNRPHSPNG PLKFSEKFQL FTPFSLGFEF RPGREYFYIS SAIPDNGRRS CLKLKVFVRP TNSCMKTIGV HDRVFDVNDK VENSLEPADD TVHESAEPSR GENVDDIEGR MDEPKSCDKT HTCPPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP SREEMTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TPPVLDSDGS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGK
Host	Human cells
Species Reactivity	Human
Form/Format	Lyophilized from a 0.2 muM filtered solution of PBS, pH 7.4.
Purity/Purification	Greater than 95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
Molecular Weight	26,297 Da
OMIM	U26403 mRNA
3D Structure	ModBase 3D Structure for P52803
Endotoxin	Less than 0.1 ng/mug (1 IEU/mug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for EFNA5 recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for EFNA5 recombinant protein	Recombinant Human EFNA5 Protein is produced by our mammalian expression system and the target gene encoding Gln21-Asn203 is expressed with a Fc tag at the C-terminus.
Other Notes	Small volumes of EFNA5 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EFNA5 purchase	MBS8248957 is a recombinant protein targeting EFNA5. Also known as Recombinant Human EFNA5 Protein. Reactive in Human. Host: Human cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EFNA5. It may not necessarily be applicable to this product.

NCBI GI #	4503487

NCBI GeneID	1946
NCBI Accession #	NP_001953.1
UniProt Primary Accession #	P52803
UniProt Related Accession #	P52803
GenBank Nucleotide #	NM_001962.2
NCBI Official Full Name	ephrin-A5
NCBI Official Synonym Full Names	ephrin A5
NCBI Official Symbol	EFNA5
NCBI Official Synonym Symbols	AF1; EFL5; RAGS; EPLG7; GLC1M; LERK7
UniProt Protein Name	Ephrin-A5
UniProt Synonym Protein Names	AL-1; EPH-related receptor tyrosine kinase ligand 7; LERK-7
Protein Family	Ephrin
UniProt Gene Name	EFNA5
UniProt Synonym Gene Names	EPLG7; LERK7; LERK-7
UniProt Entry Name	EFNA5_HUMAN
NCBI Protein Information	ephrin-A5
NCBI Summary for EFNA5	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. [provided by RefSeq, Jul 2008]

UniProt Comments for EFNA5	EFNA5: Cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Induces compartmentalized signaling within a caveolae-like membrane microdomain when bound to the extracellular domain of its cognate receptor. This signaling event requires the activity of the Fyn tyrosine kinase. Activates the EPHA3 receptor to regulate cell-cell adhesion and cytoskeletal organization. With the receptor EPHA2 may regulate lens fiber cells shape and interactions and be important for lens transparency maintenance. May function actively to stimulate axon fasciculation. The interaction of EFNA5 with EPHA5 also mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion. Cognate/functional ligand for EPHA7, their interaction regulates brain development modulating cell-cell adhesion and repulsion. Belongs to the ephrin family. Protein type: Cell development/differentiation; Ligand, receptor tyrosine kinase; Membrane protein, GPI anchor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 5q21 Cellular Component: anchored to external side of plasma membrane; extracellular region; plasma membrane Molecular Function: ephrin receptor binding Biological Process: apoptosis; axon guidance; ephrin receptor signaling pathway; nervous system development; positive regulation of peptidyl-tyrosine phosphorylation; regulation of actin cytoskeleton organization and biogenesis; regulation of cell morphogenesis; regulation of cell-cell adhesion; regulation of focal adhesion formation; regulation of GTPase activity
Research Articles on EFNA5	**1.** MiR-96 and miR-182 are upregulated in hepatocellular carcinoma and negatively associated with ephrin A5 expression.
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