EFNA5 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	EFNA5, Recombinant Protein
Full Product Name	Recombinant Human EFNA5
Product Gene Name	EFNA5 recombinant protein
Product Synonym Names	Ephrin-A5; EPLG7; LERK7; EFNA5; LERK-7; EPH-related receptor tyrosine kinase ligand 7; AL-1
Sequence	Gln21-Asn2 03
Host	Mammalian Cells
Form/Format	Lyophilized from a 0.2um filtered solution of PBS, pH7.4
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year. After reconstitution, the protein solution is stable at -20 to -80 degree C for 3 months or 1 week at 2 to 8 degree C under sterile conditions. For extended storage, it is recommended to further dilute in working aliquots, avoid repeated freeze/thaw cycle.
Molecular Weight	26,297 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (106712590..107006596, complement). Location: 5q21
OMIM	601535
3D Structure	ModBase 3D Structure for P52803
Species	Human
Endotoxin	< 1 EU/ug as determined by LAL test.
Tag	C-terminal hFc Tag
Reconstitution	Centrifuge the vial at 10000rpm for 30s before opening, reconstitute in sterile distilled water to a concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex.
Product Categories/Family for EFNA5 recombinant protein	cytokines
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for EFNA5 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for EFNA5 recombinant protein	MBS7621968 is a recombinant protein targeting EFNA5. Also known as Recombinant Human EFNA5. Host: Mammalian Cells.
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.

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
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; AL-1; LERK-7; eph-related receptor tyrosine kinase ligand 7
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; Motility/polarity/chemotaxis; Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 5q21 Cellular Component: anchored to external side of plasma membrane; extracellular region; plasma membrane; caveola Molecular Function: ephrin receptor binding; chemorepellent activity Biological Process: nervous system development; axon guidance; positive regulation of peptidyl-tyrosine phosphorylation; regulation of cell-cell adhesion; apoptosis; regulation of actin cytoskeleton organization and biogenesis; regulation of focal adhesion formation; ephrin receptor signaling pathway; negative chemotaxis; retinal ganglion cell axon guidance
Research Articles on EFNA5	**1.** EphrinA5, especially ephrinA5S, acts as a tumor suppressor in hepatocarcinogenesis.
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