

Recombinant Rat EFNA5 Protein (21-203 aa), His-tagged

Cat. No. EFNA5-470R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat EFNA5 Protein (21-203 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Rat
Source	E.coli
ProteinLength	21-203 aa
Description	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 mbrane 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

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	for EPHA7, their interaction regulates brain development modulating cell-cell adhesion and repulsion.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	25.2 kDa
AA Sequence	QDPGSKVVADRYAVYWNSSNPRFQRGDYHIDVCINDYLDVFCPHYEDSVPEDKTE RYVLYMVNFDGYSACDHTSKGFKRWECNRPHSPNGPLKFSEKFQLFTPFSLGFEF RPGREYFYISSAIPDNGRRSCLKLKVFRPTNSCMKTIGVRDRVFDVNDKVENSLP ADDTVHESAEPSRGEN
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name	Efna5 ephrin A5 [<i>Rattus norvegicus</i>]
Official Symbol	EFNA5
Synonyms	EFNA5; ephrin A5; ephrin-A5; AL-1; LERK-7; Lerk7;

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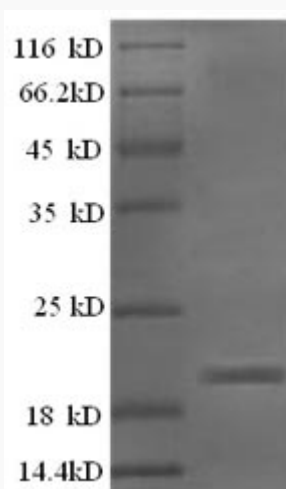
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Gene ID 116683

mRNA Refseq NM_053903

Protein Refseq NP_446355

UniProt ID P97605



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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