

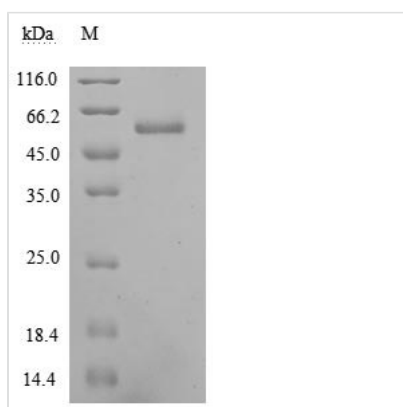


# Recombinant Human Ephrin-A5 (EFNA5) (Active)

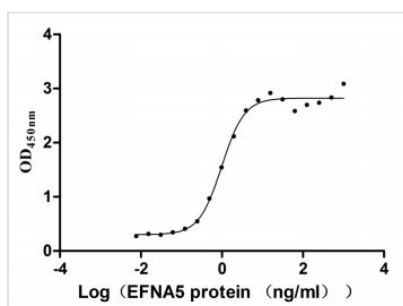
<b>Product Code</b>	CSB-MP007464HU
<b>Relevance</b>	Cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent 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.
<b>Abbreviation</b>	Recombinant Human EFNA5 protein (Active)
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P52803
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
<b>Product Type</b>	Others
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	①Measured by its binding ability in a functional ELISA. Immobilized EPHA3(CSB-MP007723HU) at 2 µg/ml can bind human EFNA5, the EC50 of human EFNA5 protein is 0.8674-1.119 ng/ml. ②Human EPHA3 protein his tag (CSB-MP007723HU) captured on COOH chip can bind Human EFNA5 protein Fc tag (CSB-MP007464HU) with an affinity constant of 13.8 nM as detected by LSPR Assay.
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	QDPGSKAVADRYAVYWNSSNPRFQRGDYHIDVCINDYLDVFCPHYEDSVPED KTERYVLYMVNFDGYSACDHTSKGFKRWEENRPHSPNGPLKFSEKFQLFTPF SLGFEFRPGREYFYISSAIPDNGRRSCLKLVFVRPTNSCMKTIGVHDRVFDVN DKVENSLEPADDTVHESAEPSRGEN
<b>Research Area</b>	Cancer
<b>Source</b>	Mammalian cell



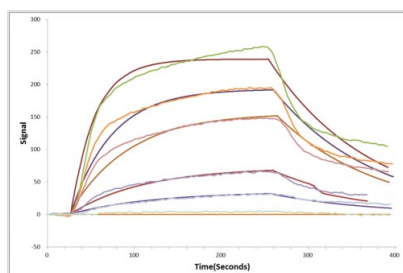
<b>Target Names</b>	EFNA5
<b>Expression Region</b>	21-203aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	C-terminal hFc1-tagged
<b>Mol. Weight</b>	50.1 kDa
<b>Protein Length</b>	Full Length of Mature Protein

**Image**


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



**Activity**  
Measured by its binding ability in a functional ELISA. Immobilized EPHA3(CSB-MP007723HU) at 2 µg/ml can bind human EFNA5, the EC<sub>50</sub> of human EFNA5 protein is 0.8674-1.119 ng/ml.



**Activity**  
Human EPHA3 protein his tag (CSB-MP007723HU) captured on COOH chip can bind Human EFNA5 protein Fc tag (CSB-MP007464HU) with an affinity constant of 13.8 nM as detected by LSPR Assay.

<b>Endotoxin</b>	Less than 1.0 EU/ug as determined by LAL method.
<b>Shelf Life</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.