

Ephrin-B1 Active Protein | EFNB1 active protein

Ephrin-B1 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257948

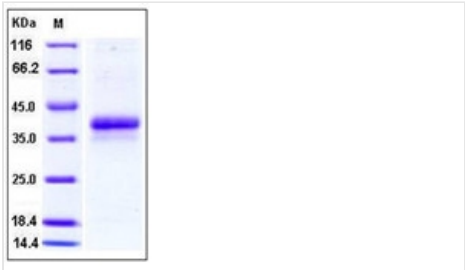
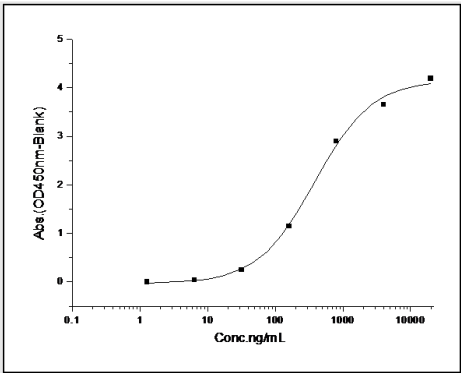
HOST
HEK293 Cells

PRODUCT SYNONYMS

Ephrin-B1; Ephrin-B1 Protein; Human; Recombinant (His Tag); Human Ephrin-B1/EFNB1 Protein (His Tag); CFND Protein; CFNS Protein; EFB1 Protein; EFL3 Protein; Elk-L Protein; EPLG2 Protein; LERK2 Protein; ephrin-B1; EFNB1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Lys23 7
Species	Human
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized recombinant human EphrinB1 at 10ug/ml (100uL/well) can bind human EphB6 with a linear range of 0.16-4ug/ml.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Leu 28
Tag	C-His
Protein Construction	A DNA sequence encoding the human EFNB1 (NP_004420.1) extracellular domain (Met 1-Lys 237) was fused with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized recombinant human EphrinB1 at 10 ug/ml (100 ul/well) can bind human EphB6 with a linear range of 0.16-4 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for EFNB1 active protein	Background: Ephrin-B1 also known as EFNB1, is a member of the ephrin family. The transmembrane- associated ephrin ligands and their Eph family of receptor tyrosine kinases are expressed by cells of the SVZ. Eph/ephrin interactions are implicated in axon guidance, neural crest cell migration, establishment of segmental boundaries, and formation of angiogenic capillary plexi. Eph receptors and ephrins are divided into two subclasses, A and B, based on binding specificities. Ephrin subclasses are further distinguished by their mode of attachment to the plasma membrane: ephrin-A ligands bind EphA receptors and are anchored to the plasma membrane via a glycosylphosphatidylinositol (GPI) linkage, whereas ephrin-B ligands bind EphB receptors and are anchored via a transmembrane domain. An exception is the EphA4 receptor, which binds both subclasses of ephrins. EphrinB1 and B class Eph receptors provide positional cues required for the normal morphogenesis of skeletal elements. Another malformation, preaxial polydactyly, was exclusively seen in heterozygous females in which expression of the X-linked ephrinB1 gene was mosaic, so that ectopic EphB-ephrinB1 interactions led to restricted cell movements and the bifurcation of digital rays.
References	Davy A, et al. (2004) Ephrin-B1 forward and reverse signaling are required during mouse development. Genes Dev. 18(5): 572-83. Compagni A, et al. (2003) Control of skeletal patterning by ephrinB1-EphB interactions. Dev Cell. 5(2): 217-30. Wieland I, et al. (2004) Mutations of the ephrin-B1 gene cause craniofrontonasal syndrome. Am J Hum Genet. 74(6): 1209-15.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758248
NCBI GeneID	1947
NCBI Accession #	NP_004420.1
NCBI GenBank Nucleotide #	NM_004429.4
UniProt Accession #	P98172; D3DVU0
Molecular Weight	38,007 Da
NCBI Official Full Name	ephrin-B1
NCBI Official Synonym Full Names	ephrin-B1
NCBI Official Symbol	EFNB1
NCBI Official Synonym Symbols	CFND; CFNS; EFL3; EPLG2; Elk-L; LERK2
NCBI Protein Information	ephrin-B1; EFL-3; LERK-2; ELK ligand; ligand of eph-related kinase 2; eph-related receptor tyrosine kinase ligand 2
UniProt Protein Name	Ephrin-B1

UniProt Gene Name	EFNB1
UniProt Synonym Gene Names	EFL3; EPLG2; LERK2; ELK-L; LERK-2
UniProt Entry Name	EFNB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-efnb1-active-protein/ephrin-b1/257948>