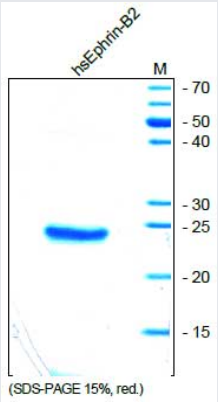
EPHRIN-B2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ephrin-B2, Recombinant Protein
Full Product Name	Human Ephrin-B2, soluble
Product Gene Name	Ephrin-B2 recombinant protein
Product Synonym Names	EPH-related receptor tyrosine kinase ligand 5; HTK ligand
Sequence	Result by N-terminal sequencing -MIVLE MIVLEPIYWN SSNSKFLPGQ GLVLYPQIGD KLDIICPKVD SKTVGQYEYY KVYMVDKDQA DRCTIKKENT PLLNCAKPDQ DIKFTIKFQE FSPNLWGLEF QKNKDYYIIS TSNGSLEGLD NQEGGVCQTR AMKILMKVGQ DASSAGSTRN KDPTRRPELE AGTNGRSSTT SPFVKPNPGS STDGNSAGHS GNNILGSEVA LFALEHHHHH H
Host	E Coli
Species Reactivity	Human
Form/Format	Lyophilized
Purity/Purification	> 95% by SDS-PAGE & visualized by silver stain
Molecular Weight	36,923 Da
OMIM	600527
3D Structure	ModBase 3D Structure for P52799
Label	His-Tag
Product Categories/Family for Ephrin-B2 recombinant protein	Recombinant Protein; Soluble Receptors; Ephrin-B2; soluble
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for Ephrin-B2 recombinant protein	The large families of Eph receptor tyrosine kinases and their Ephrin ligands transduce signals in a cell-cell contact-dependent fashion. They thereby coordinate the growth, differentiation, and patterning of almost every organ and tissue. Eph/Ephrin interactions can trigger a wide array of cellular responses, including cell adhesion, boundary formation, and repulsion. The exact mechanisms leading to this diversity of responses are unclear but appear to involve differential signaling, proteolytic cleavage of Ephrins, and endocytosis of the ligand-receptor complex. In the developing cardiovascular system, Eph and Ephrin molecules control the angiogenic remodeling of blood vessels and lymphatic vessels and play essential roles in endothelial cells as well as in supporting pericytes and vascular smooth muscle cells. Recent evidence suggests that Ephs and Ephrins may also be involved in pathological angiogenesis, in particular, the neovascularization of tumors. Consequently, the expression, interactions, or signaling of Eph/Ephrin molecules might be targets for future therapeutic approaches. Ephrins are naturally divided into two structural groups. All ligands share a conserved extracellular sequence, which most likely corresponds to the receptor-binding domain. This conserved sequence consists of approximately 125 amino acids and includes four invariant cysteines. The B-class ligands are transmembrane proteins, which can be tyrosine phosphorylated upon receptor ligation. Class B ephrins show 33% amino acid sequence identity in their extracellular segments and 44% amino acid sequence identity in their cytoplasmic regions.
Other Notes	Small volumes of Ephrin-B2 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 Ephrin-B2 purchase	MBS692282 is a recombinant protein targeting Ephrin-B2. Also known as Human Ephrin-B2, soluble. Reactive in Human. Host: E Coli.



SDS-PAGE of Ephrin-B2 recombinant protein
SDS-PAGE analysis of recombinant human soluble Ephrin-B2 produced in E. coli. Sample was loaded in 15% SDS-polyacrylamide gel under reducing condition and stained with Coomassie blue.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ephrin-B2. It may not necessarily be applicable to this product.

NCBI GI #	4758250
NCBI GeneID	1948
NCBI Accession #	NP_004084.1
UniProt Primary Accession #	P52799
UniProt Secondary Accession #	Q5JV56
UniProt Related Accession #	P52799
GenBank Nucleotide #	NM_004093.3
NCBI Official Full Name	ephrin-B2
NCBI Official Synonym Full Names	ephrin B2
NCBI Official Symbol	EFNB2
NCBI Official Synonym Symbols	HTKL; EPLG5; Htk-L; LERK5
UniProt Protein Name	Ephrin-B2
UniProt Synonym Protein Names	EPH-related receptor tyrosine kinase ligand 5; LERK-5; HTK ligand; HTK-L
Protein Family	Ephrin
UniProt Gene Name	EFNB2
UniProt Synonym Gene Names	EPLG5; HTKL; LERK5; LERK-5; HTK-L
UniProt Entry Name	EFNB2_HUMAN
NCBI Protein Information	ephrin-B2

UniProt Comments for Ephrin-B2	EFNB2: a type I membrane protein of the ephrin family. A ligand of Eph-related receptor tyrosine kinases EphA3 and EphB4. Ephrins and ephrin receptors mediate numerous developmental processes, particularly in the nervous system. Ephrin-B2 is implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. May play a role in constraining the orientation of longitudinally projecting axons Protein type: Ligand, receptor tyrosine kinase; Membrane protein, integral Chromosomal Location of Human Ortholog: 13q33 Cellular Component: focal adhesion; integral to plasma membrane; plasma membrane Molecular Function: ephrin receptor binding; protein binding Biological Process: anatomical structure morphogenesis; axon guidance; cell adhesion; cell migration during sprouting angiogenesis; cell-cell signaling; ephrin receptor signaling pathway; positive regulation of cell proliferation; regulation of chemotaxis
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