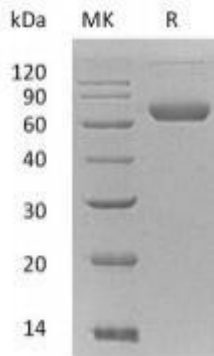


Recombinant Mouse EFNB2

Catalog#:P00333 Derived from Human Cells

DESCRIPTION	<p>Recombinant Mouse Ephrin- B2 is produced by our Mammalian expression system and the target gene encoding Arg29-Glu227 is expressed with a Fc, 6His tag at the C-terminus.</p> <p>Accession#: P52800</p> <p>Known as: Ephrin- B2; ELF-2; EPH-related receptor tyrosine kinase ligand 5; HTK ligand; Elf2; Epl5; Eplg5; Htkl; Lerk5</p>
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
SHIPPING	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
STORAGE	<p>Lyophilized protein should be stored at $<-20^{\circ}\text{C}$, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at $<-20^{\circ}\text{C}$ for 3 months.</p>
RECONSTITUTION	<p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100$\mu\text{g/ml}$.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
QUALITY CONTROL	<p>Mol Mass:49.6kDa AP Mol Mass:65-80kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.</p>
BACKGROUND	<p>Ephrin- B2 is a single-pass type I membrane protein and it contains 1 ephrin RBD (ephrin receptor-binding) domain. Ephrin- B2 belongs to the ephrin (EPH) family and it is cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. The ephrins and EPH-related receptors contain the largest subfamily of receptor protein-tyrosine kinases and have been associated with mediating developmental events, particularly in the nervous system and in erythropoiesis. Based upon their structures and sequence relationships, ephrins are allocated 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. It also binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4 and together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration.</p>
SDS-PAGE	 <p>SDS-PAGE gel image showing protein bands for MK and R lanes. Molecular weight markers are indicated on the left: 120, 90, 60, 40, 30, 20, 14 kDa. The R lane shows a prominent band at approximately 65-80 kDa.</p>