

EFNB2 Protein, Mouse, Recombinant (hFc & His)

General Information

Synonyms:	Ephrin-B2;Htkl;Lerk5.;ELF-2;Epl5;Eplg5;EPH-related receptor tyrosine kinase ligand 5;Elf2;HTK ligand
Protein Construction:	Arg29-Glu227
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P52800
Molecular Weight:	65-80 KDa (reducing condition)
AA Sequence:	Arg29-Glu227

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

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