Recombinant EFNB2 protein (His tag)

Catalog Number	537823
Synonyms	EPH-related receptor tyrosine kinase ligand 5; LERK-5; HTK ligand; HTK-L
Species	Human
Expression System	E. coli
Accession	P52799
Molecular Weight	Predictes a molecular mass of 17.81 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	28-169
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 28-169 aa (P52799) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	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 unless customers require otherwise.

Description

Description	Recombinant Human Ephrin-B2 (EFNB2) Fragment (aa 28-169) is a high-purity protein designed to encompass the full Ephrin RBD domain. This fragment serves as an essential tool for studying ligand-receptor interactions, cell signaling mechanisms, and developmental processes in neuronal, vascular, and epithelial systems, offering researchers a specific and functional reagent for targeted experimental applications. Ephrin-B2 is a transmembrane ligand for Eph receptor tyrosine kinases, playing crucial roles in cell migration, repulsion, and adhesion during neuronal, vascular, and epithelial development. It engages in bidirectional signaling, where forward signaling through Eph receptors (such as EPHA4, EPHA3, and EPHB4) and reverse signaling through the ephrin ligand regulate cellular segregation, angiogenesis, and heart morphogenesis. Additionally, Ephrin-B2 localizes to the cell membrane and adherens junctions, and it functions as a receptor for Hendra and Nipah viruses, highlighting its importance in both developmental biology and infectious disease research. The provided fragment (aa 28-169) includes the Ephrin RBD domain, enabling focused investigation into these specific functional interactions.