Recombinant EFNA4 protein (His tag)

Catalog Number	537822
Synonyms	EPH-related receptor tyrosine kinase ligand 4; LERK-4
Species	Human
Expression System	E. coli
Accession	P52798
Molecular Weight	Predictes a molecular mass of 17.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	26-170
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 26-170 aa (P52798) 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	Introducing the recombinant human Ephrin-A4 (EFNA4) fragment (amino acids 26-170), a high-purity protein designed for studying Eph receptor-ligand interactions. This fragment fully encompasses the Ephrin RBD domain, making it an ideal tool for investigating neuronal, vascular, and epithelial development mechanisms in research applications. Ephrin-A4 is a cell surface GPI-anchored ligand that binds promiscuously to Eph receptor tyrosine kinases, facilitating contact-dependent bidirectional signaling between adjacent cells. This interaction is crucial for migration, repulsion, and adhesion processes during neuronal, vascular, and epithelial development. The protein exists in multiple isoforms, with isoform 1 being membrane-anchored via GPI linkage and isoform 2 being secreted. Ephrin-A4 has also been implicated in immune cell interactions, potentially playing a role in activated B-lymphocyte and dendritic cell communication within tonsillar tissues. The specific fragment (26-170) retains the functional receptor-binding domain while excluding non-essential regions, enabling focused study of domain-specific functions.