Recombinant VANG1 protein (His tag)

Catalog Number	540809
Synonyms	Loop-tail protein 2 homolog; LPP2; Strabismus 2; Van Gogh-like protein 1
Species	Human
Expression System	E. coli
Accession	Q8TAA9
Molecular Weight	Predictes a molecular mass of 33.92 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band.

Product Information

Sequence Region	244-524
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 244-524 aa (Q8TAA9) 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 Vang-like protein 1 (VANGL1) fragment (residues 244-524) is a high-purity, stable protein designed for structural and biochemical studies. This 281-amino acid fragment was computationally optimized for solubility and stability, enabling reliable investigation of VANGL1's role in cellular processes. Vang-like protein 1 (VANGL1), also known as Loop-tail protein 2 homolog or Strabismus 2, is a multi-pass membrane protein localized to the cell membrane in humans. As a key component of planar cell polarity signaling, VANGL1 plays crucial roles in tissue patterning and cell orientation during development. The full-length protein's membrane association suggests involvement in cell-cell communication and signaling pathways, though specific functional details require further experimental characterization.