Recombinant VASH2 protein (His tag)

Catalog Number	547633
Synonyms	Vasohibin-2; Vasohibin-like protein
Species	Human
Expression System	E. coli
Accession	Q86V25
Molecular Weight	Predictes a molecular mass of 30.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	49-298
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 49-298 aa (Q86V25) 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 Tubulinyl-Tyr carboxypeptidase 2 (Vasohibin-2) Fragment (aa 49-298) is a high-purity, soluble protein designed for structural and biochemical studies. This 250-amino acid fragment retains key functional characteristics, providing researchers with a stable tool to investigate microtubule dynamics, angiogenesis regulation, and mitotic spindle function. Tubulinyl-Tyr carboxypeptidase 2 (Vasohibin-2), encoded by the VASH2 gene, is a tyrosine carboxypeptidase that removes C-terminal tyrosine residues from alpha-tubulin, thereby regulating microtubule dynamics and function. This enzyme plays critical roles in multiple biological processes, including mitotic spindle regulation during chromosome segregation, angiogenesis activation through expression in infiltrating mononuclear cells at sprouting fronts, and axon formation. The protein exhibits complex subcellular localization, primarily residing in the cytoplasm with association to the cytoskeleton and microtubules, while a fraction is secreted via a non-canonical secretion system facilitated by interaction with SVBP. These diverse localizations reflect its multifaceted functions in cellular dynamics and intercellular signaling.