Recombinant SETLP protein (His tag)

Catalog Number	542090
Synonyms	SET pseudogene protein 18; SET similar protein; Similar to SET translocation protein
Species	Human
Expression System	E. coli
Accession	P0DME0
Molecular Weight	Predictes a molecular mass of 25.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	37-237
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 37-237 aa (P0DME0) 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 Protein SETSIP (37-237) is a high-quality, stable fragment designed for structural and functional studies. This 201-amino acid segment retains key properties of the full-length protein, supporting research in somatic cell reprogramming, endothelial differentiation, and vascular development. Protein SETSIP (SET pseudogene protein 18) functions as a transcriptional activator critical during early somatic cell reprogramming. It promotes differentiation of protein-induced pluripotent stem (PiPS) cells into endothelial cells and facilitates vascular-like tube formation in vitro. The protein specifically induces transcription of vascular endothelial-cadherin (VE-cadherin) by associating with its gene promoter. SETSIP exhibits dual localization, residing in both the cytoplasm and nucleus, with nuclear translocation observed in PiPS endothelial cells. This recombinant fragment provides a valuable tool for investigating mechanisms of stem cell differentiation and vascular biology.