Recombinant PHOCN protein (His tag)

Catalog Number	541607
Synonyms	2C4D; Class II mMOB1; Mob1 homolog 3; Mob3; Mps one binder kinase activator-like 3; Preimplantation protein 3
Species	Human
Expression System	E. coli
Accession	Q9Y3A3
Molecular Weight	Predictes a molecular mass of 27.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	1-225
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 1-225 aa (Q9Y3A3) 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 MOB-like protein phocein (2C4D) fragment (residues 1-225) is a high-quality, soluble protein designed for structural and biochemical studies. This fragment represents a stable domain of the human MOB4 gene product, ideal for investigating its role in striatin-interacting phosphatase and kinase (STRIPAK) complexes and related signaling pathways. The full-length MOB-like protein phocein (MOB4) is a component of STRIPAK complexes, which play critical roles in protein phosphorylation and dephosphorylation processes. These complexes regulate multiple signaling pathways including Hippo, MAPK, nuclear receptor, and cytoskeleton remodeling, influencing fundamental biological processes such as cell growth, differentiation, apoptosis, metabolism, and immune regulation. The protein localizes primarily to the cytoplasm in a perinuclear punctate pattern and associates with membranes, particularly the Golgi stack membrane, where it functions as a peripheral membrane protein. This recombinant fragment (1-225) encompasses the complete functional domain and was selected based on structural predictions to ensure optimal stability and solubility for experimental applications.