

## MOB4 Protein, Human (His)

<b>Cat. No.:</b>	HY-P70940
<b>Synonyms:</b>	MOB-Like Protein Phocein; 2C4D; Class II mMOB1; Mob1 Homolog 3; Mob3; Mps One Binder Kinase Activator-Like 3; Preimplantation Protein 3; MOB4; MOB3; MOBKL3; PHOCN; PREI3
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q9Y3A3 (M1-A225)
<b>Gene ID:</b>	25843
<b>Molecular Weight:</b>	Approximately 29.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> M V M A E G T A V L   R R N R P G T K A Q   D F Y N W P D E S F   D E M D S T L A V Q Q Y I Q Q N I R A D   C S N I D K I L E P   P E G Q D E G V W K   Y E H L R Q F C L E L N G L A V K L Q S   E C H P D T C T Q M   T A T E Q W I F L C   A A H K T P K E C P A I D Y T R H T L D   G A A C L L N S N K   Y F P S R V S I K E   S S V A K L G S V C R R I Y R I F S H A   Y F H H R Q I F D E   Y E N E T F L C H R   F T K F V M K Y N L M S K D N L I V P I   L E E E V Q N S V S   G E S E A           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>The MOB4 protein is suggested to potentially play a role in membrane trafficking, with a specific involvement in membrane budding reactions, indicating its significance in cellular processes related to vesicle formation and transport. Functionally, MOB4 has been identified to bind STRN4, suggesting a potential role in protein-protein interactions crucial for its cellular functions. Additionally, MOB4 interacts with DNM1 and EPS15, further highlighting its involvement in dynamic cellular processes associated with membrane dynamics. Moreover, MOB4 forms part of a ternary complex containing STRN and/or STRN3 and PPA2, indicating its participation in multi-protein complexes that may regulate membrane-related activities. The</p>
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protein also interacts with nucleoside diphosphate kinase and binds STRN and STRN3, underscoring its versatility in engaging with various molecular partners. Furthermore, MOB4 interacts with CTTNBP2 and CTTNBP2NL, emphasizing its potential role in diverse cellular pathways and the intricate regulation of membrane-associated events. The detailed molecular interactions and specific functions of MOB4 in membrane trafficking warrant further exploration.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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