

MOB4A/MOB1B Protein, Human (His)

Cat. No.:	HY-P77449
Synonyms:	MOB kinase activator 1B; MOB4A; MOBKL1A; MOB1B
Species:	Human
Source:	E. coli
Accession:	Q7L9L4 (M1-R216)
Gene ID:	92597
Molecular Weight:	Approximately 24 kDa

PROPERTIES

AA Sequence	<pre> MSFLFGSRSS KTFKPKKNIP EGSHQYELLK HAEATLGSGN LRMAVMLPEG EDLNEWVAVN TVDFFNQINM LYGTITDFCT EESCPVMSAG PKYEYHWADG TNIKKPIKCS APKYIDYLMT WVQDQLDDET LFP SKIGVPF PKNFMSVAKT ILKRLFRVYA HIYHQHFDPV IQLQEEAHLN TSFKHFIFV QEFNLIDRRE LAPLQELIEK LTSKDR </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>MOB4A, also known as MOB1B, functions as a crucial activator within the Hippo signaling pathway, playing a pivotal role in the control of organ size and tumor suppression by regulating proliferation and promoting apoptosis. The core of this pathway involves a kinase cascade, where STK3/MST2 and STK4/MST1, along with the regulatory protein SAV1, phosphorylate and activate LATS1/2. In conjunction with its regulatory partner MOB1B, LATS1/2 then phosphorylates and inactivates the YAP1 oncoprotein and WWTR1/TAZ. The phosphorylation of YAP1 by LATS1/2 prevents its translocation into the nucleus, thereby orchestrating the regulation of genes essential for cell proliferation, death, and migration.</p>
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MOB4A/MOB1B also stimulates the kinase activity of STK38L and interacts with LATS1 and LATS2, contributing to the intricate regulatory network that governs the Hippo signaling pathway.

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

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