

FOXM1 Protein, Human (His, SUMO-Myc)

Cat. No.:	HY-P72197
Synonyms:	FKHL16; Forkhead box M1; Forkhead box protein M1; forkhead like 16; Forkhead-related protein FKHL16; FOX M1; Foxm1; FOXM1_HUMAN; FOXM1B; HFH-11; HFH11; HNF-3/fork-head homolog 11; HNF3; INS1; M phase phosphoprotein 2; M-phase phosphoprotein 2; MPHOSPH2; MPP2; PIG29; TGT3; Transcription factor Trident; Trident; WIN; Winged-helix factor from INS1 cells
Species:	Human
Source:	E. coli
Accession:	Q08050 (E235-L327)
Gene ID:	2305
Molecular Weight:	Approximately 31.2 kDa

PROPERTIES

AA Sequence	<p> E R P P Y S Y M A M I Q F A I N S T E R K R M T L K D I Y T W I E D H F P Y F K H I A K P G W K N S I R H N L S L H D M F V R E T S A N G K V S F W T I H P S A N R Y L T L D Q V F K P L </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
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.
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> FOXM1, a crucial transcription factor, governs the expression of cell cycle genes vital for DNA replication and mitosis, underscoring its pivotal role in orchestrating cellular processes. Beyond its involvement in cell proliferation control, FOXM1 also contributes to DNA break repair, actively participating in the DNA damage checkpoint response. Notably, FOXM1 promotes the transcription of PHB2, emphasizing its diverse regulatory functions. Furthermore, FOXM1 interacts with PINT87aa, a product encoded by the circular form of the long non-coding RNA LINC-PINT, and this interaction serves to inhibit FOXM1-mediated transcription of PHB2, revealing an intricate layer of regulatory control in cellular transcriptional processes. </p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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