

HBP1 Protein, Human (His)

Cat. No.:	HY-P75150
Synonyms:	HMG box-containing protein 1; HBP1
Species:	Human
Source:	E. coli
Accession:	O60381 (P208-F345)
Gene ID:	26959
Molecular Weight:	Approximately 17 kDa

PROPERTIES

AA Sequence	<p>P S T V W H C F L K</p> <p>G T R L C F H K G S N K E W Q D V E D F A R A E G C D N E E D</p> <p>L Q M G I H K G Y G S D G L K L L S H E E S V S F G E S V L K L T F D P G T V E</p> <p>D G L L T V E C K L D H P F Y V K N K G W S S F Y P S L T V V Q H G I P C C E V</p> <p>H I G D V C L P P G H P D A I N F</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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>HBP1, a transcriptional repressor, exerts its regulatory influence by binding specifically to the promoter region of target genes. It plays a pivotal role in governing both the cell cycle and the Wnt pathway, displaying a preference for the sequence 5'-TTCATTCATTCA-3'. The interaction with RB1 enhances its binding to the histone H1.0 promoter, contributing to its regulatory function. Additionally, HBP1 disrupts the DNA-TCF4 interaction and binds to the second PAH repeat of SIN3A. Notably, it engages in direct interactions with TCF4 and RB1, further underscoring its involvement in intricate regulatory networks.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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