SKP1 Protein, Human (Biotinylated, His-Avi)

Cat. No.:	HY-P76644
Synonyms:	S-phase kinase-associated protein 1; p19A; OCP-2; p19skp1; EMC19; SKP1A; TCEB1L
Species:	Human
Source:	HEK293
Accession:	P63208 (P2-K163)
Gene ID:	6500
Molecular Weight:	23-28 kDa

PROPERTIES

AA Sequence	P S I K L Q S S D G E I F E V D V E I A K Q S V T I K T M L E D L G M D D E G D D D P V P L P N V N A A I L K K V I Q W C T H H K D D P P P P E D D D E N K E K R T D D I P V W D Q E F L K V D Q G T L F E L I L A A N Y L D I K G L L D V T C K T V A N M I K G K T P E E I R K T F N I K N D F T E E E E E A Q V R K E N Q W C E E K
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	SKP1, an indispensable component of the SCF (SKP1-CUL1-F-box protein) ubiquitin ligase complex, plays a crucial role in orchestrating the ubiquitination of proteins involved in diverse cellular processes, including cell cycle progression, signal transduction, and transcription. Within the SCF complex, SKP1 serves as an essential adapter, bridging the F-box protein to CUL1 and, consequently, facilitating the substrate recognition function of the SCF complex. The specificity of SCF-mediated ubiquitination is contingent on the F-box protein's unique substrate recognition capabilities. Several F-box proteins within the SCF complex, such as BTRC, FBXW11, SKP2, FBXW7, FBXO32, and others, are implicated in directing ubiquitination events targeting key regulatory proteins involved in Wnt signaling, NF-kappa-B activation, G1/S transition regulation, and

diverse cellular pathways. This intricate network of interactions highlights SKP1's pivotal role as a molecular adapter in the SCF ubiquitin ligase complex, governing the dynamic regulation of protein modification through ubiquitination.

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