

SKP2 Protein, Human (His-SUMO)

Cat. No.:	HY-P71531
Synonyms:	CDK2/Cyclin A associated protein p45; Cyclin A/CDK2 associated protein p45; Cyclin-A/CDK2-associated protein p45; F box protein Skp2; F box/LRR repeat protein 1; F-box protein Skp2; F-box/LRR-repeat protein 1; FBL1; FBL1; FBXL1; FBXL1; FLB1; FLB1; MGC1366; p45; p45skp2;
Species:	Human
Source:	E. coli
Accession:	Q13309 (M1-L424)
Gene ID:	6502
Molecular Weight:	Approximately 63.8 kDa

PROPERTIES

AA Sequence

MHRKHLQEIP	DLSSNVATSF	TWGWDS SKTS	ELLSGMGVSA
LEKEEPDSEN	IPQELLSNLG	HPESP PRKRL	KSKGSDKDFV
IVRRPKLNRE	NFP GVS WDSL	PDELL L G IFS	CLCLPELLKV
SGVCKRWYRL	ASDES LWQTL	DLTGKNLHPD	VTGRLLSQGV
IAFRC PRSFM	DQPLAEHFSP	FRVQHMDLSN	SVIEVSTLHG
ILSQC SKLQN	LSLEGLRLSD	PIVNTLAKNS	NLVRLNLSGC
SGFSEFALQT	LLSSCSR LDE	LNL SWCFDFT	EKHVQVAVAH
VSETITQLNL	SGYRKNLQKS	DLSTLVRRCP	NLVHLDLSDS
VMLKND CFQE	FFQLNYLQHL	SLSRCYDIIP	ETLLELGEIP
TLKTLQVFGI	VPDGT LQLLK	EALPHLQINC	SHFTTIARPT
IGNKKNQEIW	GIKCRLTLQK	PSCL	

Appearance Lyophilized powder

Formulation Lyophilized after extensive dialysis against solution in 10 mM Tris-HCl, 1 mM EDTA, 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 ddH₂O.

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 SKP2 serves as the substrate recognition component within the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase

complex, orchestrating the ubiquitination and subsequent proteasomal degradation of target proteins pivotal in cell cycle progression, signal transduction, and transcription. It specifically recognizes phosphorylated CDKN1B/p27kip, playing a crucial role in the regulation of the G1/S transition. SKP2's substrate spectrum encompasses proteins like ORC1, CDT1, RBL2, KMT2A/MLL1, CDK9, RAG2, FOXO1, UBP43, YTHDF2, MYC, TOB1, and TAL1, among others. Additionally, SKP2 is involved in the ubiquitin-mediated proteasomal degradation of hepatitis C virus non-structural protein 5A, displaying antiviral activity against the virus. The complex nature of SKP2's interactions underscores its significance in governing diverse cellular processes through targeted protein degradation.

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

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