

## SKP1 Protein, Human, Recombinant (His, Avi), Biotinylated

### General Information

Synonyms:	SIII;OCP-2;TCEB1L;EMC19;OCP-II;OCP2;SKP1A;p19A
Protein Construction:	Pro2-Lys163
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P63208-1
Molecular Weight:	21.43 kDa (predicted). Due to glycosylation, the protein migrates to 23-28 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

The S-phase Kinase-Associated Protein 1 (SKP1) is a core component of the SKP1, Cullin 1, F-box protein (SCF) complex, an E3 ubiquitin ligase that serves to poly-ubiquitinate a vast array of protein targets as a signal for their proteasomal degradation, thereby playing a critical role in the regulation of downstream biological processes.

Reference

Thompson LL, et al. Aberrant SKP1 Expression: Diverse Mechanisms Impacting Genome and Chromosome Stability. Front Cell Dev Biol. 2022 Mar 8;10:859582. doi: 10.3389/fcell.2022.859582. PMID: 35345853; PMCID: PMC8957228.

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