

## **MATERIAL DATA SHEET**

## Recombinant Human SKP1/FBX07/CUL1/RBX1 Complex

Cat. # E3-526

SKP1 (S-phase kinase-associated protein 1) is an essential component of SCF (SKP1-CUL1-F-box protein) E3 Ubiquitin ligases that mediate the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. SKP1 is the adapter protein that links Cullin-1 to various F-box proteins (such as FBXO7) that serve as the substrate recognition components of SCF ligases. FBXO7 (aka FBX7 or PARK15) plays a role in mitophagy by helping target Parkin (PARK2) to depolarized mitochondria, thereby inducing the ubiquitination of TOMM20 and other mitochondrial proteins. Evidence

from a Drosophila Parkin<sup>-/-</sup> neurodegeneration model indicates that FBXO7 can substitute for Parkinmediated ubiquitination of mitochondrial substrates in some settings. This recombinant protein complex consists of His-tag SKP1, FLAG-tag FBXO7, His-tag CUL1 and untagged RBX1.

Product Information	
Quantity:	25 µg
MW:	21 kDa (SKP1), 63kDa (FBXO7), 96 kDa (CUL1), 12 kDa (RBX1)
Source:	Spodoptera frugiperda, Sf 21 (baculovirus)-derived human SKP1/FBX07/CUL1/RBX1 Complex protein Accession # P63208, Q9Y3I1, Q13616, P62877
Stock:	X mg/ml (X $\mu M)$ in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 1 mM DTT
Purity:	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage		
Use:	Typical protein concentration for use in vitro will depend on experimental conditions. We recommend an initial starting concentration of 10-50 nM for in vitro ubiquitination reactions.	
Storage:	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>60 months from date of receipt, -70 °C as supplied.</li> <li>3 months, -70 °C under sterile conditions after opening.</li> </ul>	

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## Literature

## **References:**

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