

UBE2M

Recombinant Human Ubiquitin-Conjugating Enzyme E2M His

Catalog No.	CSI12735 CSI12736 CSI12737	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	NEDD8-conjugating enzyme Ubc12, Ubiquitin-conjugating enzyme E2 M, NEDD8 protein ligase, NEDD8 carrier protein, UBC12, hUbc12, UBC-RS2.		
Description:	<p>UBE2M is functional in <i>in vitro</i> NEDDylation reactions. It has been shown to form a thioester linkage with NEDD8 in the presence of the NEDD8 activating enzyme complex Uba3/APP-BP1. APP-BP1 binds to the amyloid precursor protein (APP) carboxy terminal domain and is important in conjunction with Uba3 and UBE2M in driving cells through the S to M checkpoint. It was demonstrated to be the E2 responsible for the NEDDylation of the Cul-1 component of the SCF(β-TRCP) complex which is important as the E3-ligase in the ubiquitinylation of I B . NEDDylation of Cul-1 is essential for conjugation and processing of NF-κB p105 by SCF(β-TRCP) following phosphorylation of the complex.</p> <p>Recombinant Human Ubiquitin Conjugating Enzyme E2M is a 25 kDa protein containing 216 amino acids including a 6x His tag. It is purified by proprietary chromatographic techniques.</p>		
Concentration:	~1mg/ml		
Gene ID:	9040		
Source:	<i>E. coli</i>		
Molecular Weight:	25.0 kDa		
Formulation:	Lyophilized from a 0.2 µm sterile filtered solution in PBS + 1 mM DTT, pH 7.5		
Purity:	> 95% as determined by RP-HPLC and SDS-PAGE analyses		
Endotoxin Level:	< 0.1 ng/µg of UBE2M		
Amino Acid Sequence:	MSYYHHHHHH DYDIPTTENL YFQGAMDPEF RIWMIKLFSL KQKKEEESA GGTGSSSKKA SAAQLRIQKD INELNLPKTC DISFSDPDDL LNFKLVICPD EGFYKSGKFV FSFKVGQGYP HDPPKVKCET MVYHPNIDLE GNVCLNILRE DWKPVLITNS IYGLQYLFL EPNPEDPLNK EAVLQNNRRL FEQNVQRSMR GGYIGSTYFE RCLK		
Reconstitution:	Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

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