

UbcH7/UBE2L3 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P701348
Synonyms:	UBE2L3; Ubiquitin-conjugating enzyme E2 L3; E2 ubiquitin-conjugating enzyme L3; L-UBC; UbcH7; Ubiquitin carrier protein L3; Ubiquitin-conjugating enzyme E2-F1; Ubiquitin-protein ligase L3
Species:	Human
Source:	Sf9 insect cells
Accession:	P68036 (A2-D154)
Gene ID:	7332
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	UbcH7/UBE2L3, a ubiquitin-conjugating enzyme E2, exhibits specificity in collaboration with HECT-type and RBR family E3 ubiquitin-protein ligases. Notably, its unique characteristic is the absence of intrinsic E3-independent reactivity with lysine, rendering it incompatible with most RING-containing E3 ubiquitin-protein ligases. However, it demonstrates activity with RBR family E3 enzymes such as PRKN, RNF31, and ARIH1, functioning akin to RING-HECT hybrids. Acting downstream of the E1 complex, UbcH7 catalyzes the covalent attachment of ubiquitin to target proteins and, in vitro, facilitates 'Lys-11'-linked polyubiquitination. Its involvement in the selective degradation of short-lived and aberrant proteins highlights its role in cellular quality control. Additionally, down-regulation during the S-phase suggests a contribution to cell cycle progression, while its impact on nuclear hormone receptors' transcriptional activity and potential role in myelopoiesis further underscore its multifaceted functions.
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Caution: Product has not been fully validated for medical applications. For research use only.

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