

UBE1L2/UBA6 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P701353
Synonyms:	UBA6; Ubiquitin-like modifier-activating enzyme 6; Ubiquitin-activating enzyme 6; Monocyte protein 4; MOP-4; Ubiquitin-activating enzyme E1-like protein 2; E1-L2
Species:	Human
Source:	Sf9 insect cells
Accession:	A0AVT1 (E2-D1052)
Gene ID:	55236
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	The Ubiquitin E1 Enzyme initiates the ubiquitination process by activating ubiquitin through a two-step mechanism. It first adenylates the C-terminal glycine residue of ubiquitin with ATP and then forms a thioester bond between this glycine residue and a cysteine residue in the E1 enzyme, releasing free AMP in the process. Notably, it demonstrates specificity for ubiquitin, excluding ubiquitin-like peptides from this activation process. In contrast to UBE1, this enzyme is selective in charging substrate E2 enzymes, excluding cell cycle E2s such as CDC34. Its indispensability is underscored by its role in embryonic development, and it is crucial for the conjugation of UBD/FAT10. Isoform 2 of the enzyme may exert a significant impact on the ubiquitin system, potentially influencing spermatogenesis and male fertility.
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Caution: Product has not been fully validated for medical applications. For research use only.

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