

UFC1 Protein, Human (Sf9, His, Strep α)

Cat. No.:	HY-P701492
Synonyms:	UFC1; Ubiquitin-fold modifier-conjugating enzyme 1; Ufm1-conjugating enzyme 1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9Y3C8 (A2-Q167)
Gene ID:	51506
Molecular Weight:	Approximately 22.5 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.22 μ m filtered solution of 50 mM HEPES, pH 7.5, 200 mM NaCl, 20% glycerol, 1 mM DTT.
Endotoxin Level	<1 EU/ μ g, 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	UFC1, functioning as an E1-like enzyme, plays a crucial role in the second step of ufmylation, a specific post-translational modification process. This enzyme accepts UFM1 from the E1 enzyme UBA5, forming an intermediate with UFM1 through a thioester linkage. Notably, ufmylation is implicated in reticulophagy (ER-phagy) triggered by endoplasmic reticulum stress. UFC1 engages in interactions with key partners, including UBA5, highlighting its intricate involvement in the ufmylation pathway. Furthermore, UFC1 interacts with UFL1 and KIRREL3, underscoring its potential role in diverse cellular processes beyond ufmylation. These interactions emphasize the significance of UFC1 in orchestrating cellular responses to stress and maintaining cellular homeostasis.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA