

TRIM16 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P702067
Synonyms:	TRIM16; Tripartite motif-containing protein 16; E3 ubiquitin-protein ligase TRIM16; Estrogen-responsive B box protein
Species:	Human
Source:	Sf9 insect cells
Accession:	O95361 (A2-P564)
Gene ID:	/
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	TRIM16, functioning as an E3 ubiquitin ligase, assumes a crucial role in orchestrating the autophagic response and ubiquitination processes in the face of lysosomal and phagosomal damages. Notably, it contributes to the stress-induced biogenesis and degradation of protein aggregates by intricately regulating the p62-KEAP1-NRF2 signaling axis. A central aspect of its functionality lies in modulating ubiquitination levels and, consequently, the stability of NRF2, a key player in cellular stress responses. As a scaffold protein, TRIM16 facilitates the autophagic degradation of protein aggregates, forming interactions with p62/SQSTM1, ATG16L1, and LC3B/MAP1LC3B. This multifaceted role positions TRIM16 as a guardian against oxidative stress-induced cell death, particularly in response to endomembrane damage.
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Caution: Product has not been fully validated for medical applications. For research use only.

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