

HACE1 Protein, Human (His)

Cat. No.:	HY-P701526
Synonyms:	HACE1; E3 ubiquitin-protein ligase HACE1; HECT domain and ankyrin repeat-containing E3 ubiquitin-protein ligase 1; HECT-type E3 ubiquitin transferase HACE1
Species:	Human
Source:	E. coli
Accession:	Q8IYU2 (E2-A909)
Gene ID:	57531
Molecular Weight:	Approximately 104.4 kDa

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	/
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	HACE1, an E3 ubiquitin-protein ligase, intricately participates in Golgi membrane fusion and the regulation of small GTPases. Its crucial role in Golgi membrane dynamics during the cell cycle involves recruitment to the Golgi membrane by Rab proteins, where it orchestrates postmitotic Golgi membrane fusion. During mitotic Golgi disassembly, HACE1 mediates ubiquitination, serving as a pivotal signal for Golgi reassembly in the subsequent stages of cell division. Notably, HACE1 exhibits specificity in its interaction with GTP-bound RAC1, leading to the ubiquitination and subsequent degradation of active RAC1. This function positions HACE1 as a significant contributor to host defense against pathogens. Additionally, HACE1 may extend its influence as a transcription regulator through interaction with RARB.
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Caution: Product has not been fully validated for medical applications. For research use only.

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