Product Data Sheet

TRIM69 Protein, Human (GST)

Cat. No.:	HY-P701510
Synonyms:	TRIM69; E3 ubiquitin-protein ligase TRIM69; RFP-like domain-containing protein trimless; RING finger protein 36; RING-type E3 ubiquitin transferase TRIM69; Tripartite motif-containing protein 69
Species:	Human
Source:	E. coli
Accession:	Q86WT6 (E2-Q500)
Gene ID:	140691
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.
Reconsititution	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	TRIM69, functioning as an E3 ubiquitin ligase, assumes a pivotal role in antiviral immunity by exerting restrictions on various viral infections, including dengue virus and vesicular stomatitis Indiana virus. This regulatory function is achieved through the ubiquitination of viral proteins, such as dengue virus NS3, thereby curbing the extent of infection. Beyond its antiviral role, TRIM69 emerges as a central mediator in type I interferon-induced microtubule stabilization, establishing a direct association with microtubules independently of its E3 ligase activity. Furthermore, it contributes to cataract formation in conjunction with TP53. Mechanistically, TRIM69 inhibits UVB-induced cell apoptosis and reactive oxygen species (ROS) production by inducing TP53 ubiquitination, highlighting its multifaceted involvement in cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.