# TRIM69 Protein, Human

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| Cat. No.: | HY-P701511 |
| 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

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| 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

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| 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.**

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