

TRIM38 Protein, Human (GST)

Cat. No.:	HY-P701506
Synonyms:	TRIM38; E3 ubiquitin-protein ligase TRIM38; RING finger protein 15; Tripartite motif-containing protein 38; Zinc finger protein RoRet
Species:	Human
Source:	E. coli
Accession:	O00635 (A2-D465)
Gene ID:	10475
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	<p>TRIM38, a versatile E3 ubiquitin-protein and E3 SUMO-protein ligase, intricately regulates innate immunity. Functioning as a negative regulator of type I interferon IFN-beta production, TRIM38 catalyzes 'Lys-48'-linked polyubiquitination of AZI2/NAP1, leading to its degradation. Additionally, TRIM38 plays a pivotal role in inhibiting TLR3-mediated type I interferon signaling by mediating 'Lys-48'-linked polyubiquitination and proteasomal degradation of the critical TLR adapter TICAM1. Acting as a positive regulator of the cGAS-STING pathway, TRIM38 serves as an E3 SUMO-protein ligase, facilitating the sumoylation of CGAS and STING, thereby preventing their degradation and activating the innate immune response to DNA viruses. Beyond its E3 ligase activities, TRIM38 functions as a negative regulator of NF-kappa-B signaling by promoting lysosome-dependent degradation of TAB2 and TAB3 adapters, underscoring its multifaceted roles in modulating immune responses.</p>
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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