

TRIM21 Protein, Mouse (His-SUMO)

Cat. No.:	HY-P71570
Synonyms:	Trim21; Ro52; Ssa1; E3 ubiquitin-protein ligase TRIM21; EC 2.3.2.27; 52kDa Ro protein; 52kDa ribonucleoprotein autoantigen Ro/SS-A; RING-type E3 ubiquitin transferase TRIM21; Ro(SS-A); Sjogren syndrome type A antigen; SS-A; Tripartite motif-containing protein 21
Species:	Mouse
Source:	E. coli
Accession:	Q62191 (1M-470M)
Gene ID:	20821
Molecular Weight:	Approximately 70.2 kDa

PROPERTIES

AA Sequence

M S P S T T S K M S	L E K M W E E V T C	S I C L D P M V E P	M S I E C G H C F C
K E C I F E V G K N	G G S S C P E C R Q	Q F L L R N L R P N	R H I A N M V E N L
K Q I A Q N T K K S	T Q E T H C M K H G	E K L H L F C E E D	G Q A L C W V C A Q
S G K H R D H T R V	P I E E A A K V Y Q	E K I H V V L E K L	R K G K E L A E K M
E M D L T M Q R T D	W K R N I D T Q K S	R I H A E F A L Q N	S L L A Q E E Q R Q
L Q R L E K D Q R E	Y L R L L G K K E A	E L A E K N Q A L Q	E L I S E L E R R I
R G S E L E L L Q E	V R I I L E R S G S	W N L D T L D I D A	P D L T S T C P V P
G R K K M L R T C W	V H I T L D R N T A	N S W L I I S K D R	R Q V R M G D T H Q
N V S D N K E R F S	N Y P M V L G A Q R	F S S G K M Y W E V	D V T Q K E A W D L
G V C R D S V Q R K	G Q F S L S P E N G	F W T I W L W Q D S	Y E A G T S P Q T T
L H I Q V P P C Q I	G I F V D Y E A G V	V S F Y N I T D H G	S L I Y T F S E C V
F A G P L R P F F N	V G F N Y S G G N A	A P L K L C P L K M	

Appearance

Lyophilized powder.

Formulation

Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.

Endotoxin Level

<1 EU/μg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

TRIM21 Protein functions as an E3 ubiquitin-protein ligase, relying on E2 enzymes (UBE2D1, UBE2D2, UBE2E1, UBE2E2). It forms a ubiquitin ligase complex with UBE2D2, ubiquitinating USP4, IKBKB, and itself. Associated with cullin-RING-based SCF E3 ligase complexes, it mediates CDKN1B ubiquitination and participates in the negative regulation of Tax-induced NF-kappa-B signaling. TRIM21 negatively regulates IFN-beta production and mediates ubiquitin-mediated degradation of IgG1 heavy chain. It promotes IRF8 ubiquitination, influences cell cycle progression, enhances DCP2 decapping activity, and plays a role in autophagy regulation. Additionally, TRIM21 is involved in innate immunity, inflammatory responses, and antiviral defense, mediating ubiquitination events that impact cellular processes.

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

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