

## TRIM5 Protein, Human (His)

Cat. No.:	HY-P71385
Synonyms:	Tripartite motif-containing protein 5; RING finger protein 88; TRIM5; RNF88
Species:	Human
Source:	E. coli
Accession:	Q9C035 (M1-Q248)
Gene ID:	85363
Molecular Weight:	Approximately 33.0 kDa

### PROPERTIES

AA Sequence	<pre> M A S G I L V N V K   E E V T C P I C L E   L L T Q P L S L D C   G H S F C Q A C L T A N H K K S M L D K   G E S S C P V C R I   S Y Q P E N I R P N   R H V A N I V E K L R E V K L S P E G Q   K V D H C A R H G E   K L L L F C Q E D G   K V I C W L C E R S Q E H R G H H T F L   T E E V A R E Y Q V   K L Q A A L E M L R   Q K Q Q E A E E L E A D I R E E K A S W   K T Q I Q Y D K T N   V L A D F E Q L R D   I L D W E E S N E L Q N L E K E E E D I   L K S L T N S E T E   M V Q Q T Q S L R E   L I S D L E H R L Q G S V M E L L Q           </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
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	TRIM5 is a capsid-specific restriction factor that effectively prevents infection by non-host-adapted retroviruses. Its antiviral activity occurs early in the viral life cycle, specifically after viral entry but before reverse transcription. In addition to its role as a capsid-specific restriction factor, TRIM5 acts as a pattern recognition receptor, activating innate immune signaling in response to the retroviral capsid lattice. Upon binding to the viral capsid, TRIM5 triggers its E3 ubiquitin ligase activity.
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Teaming up with the UBE2V1-UBE2N complex, it generates 'Lys-63'-linked polyubiquitin chains, facilitating the autophosphorylation of the MAP3K7/TAK1 complex. The activated MAP3K7/TAK1 complex induces NF-kappa-B and MAPK-responsive inflammatory genes, instigating an innate immune response in the infected cell. TRIM5's versatility extends to restricting infections by various retroviruses, including N-tropic murine leukemia virus, equine infectious anemia virus, simian immunodeficiency virus of macaques, feline immunodeficiency virus, and bovine immunodeficiency virus. Moreover, TRIM5 plays a crucial role in regulating autophagy by activating autophagy regulator BECN1 and acting as a selective autophagy receptor, targeting HIV-1 capsid protein p24 for autophagic degradation.

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

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