

## TRIM5 Protein, Human, Recombinant (B2M & His)

### General Information

Synonyms:	RING-type E3 ubiquitin transferase TRIM5;TRIM5;Tripartite motif-containing protein 5;RING finger protein 88;RNF88
Protein Construction:	1-493 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9C035
Molecular Weight:	70.3 kDa (predicted)
AA Sequence:	MASGILVNVKKEVTCPICLELLTQPLSLDCGHSFCQACLTANHHKSMMLDKGESSCPVCRISYQPENIRPNRHVA NIVEKLREVKLSPEGQKVDHRCARHGKLLLFCQEDGKVICWLCERSQEHRGHHTFLTEEVAREYQVKLQAALE MLRQKQQEAAEELEADIREEKASWKTQIQYDKTNVLADFEQLRDILDWEESNELQNLEKEEEDILKSLTNSETE MVQQTQSLRELISDLEHRLQGSVMELQGVGDVIKRTENVTLKKPETFPKNQRRVFRAPDLKGMLEVFRELTD VRRYWVDVTVAPNNISCAVISEDKRQVSSPKQIYGARGTRYQTFVNFNYCTGILGSQSITSGKHYWEVDVSK KTAWILGVCAGFQPDAMCNIEKNENYQPKYGYWVIGLEEGVKCSAFQDSSFHTPSVPFIVPLSVIICPDRVGVF LDYEACTVSFFNITNHGFLIYKFSHCSFSQPVPYLPNPRKCGVPMTLCSPPS

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Capsid-specific restriction factor that prevents infection from non-host-adapted retroviruses. Blocks viral replication early in the life cycle, after viral entry but before reverse transcription. In addition to acting as a capsid-specific restriction factor, also acts as a pattern recognition receptor that activates innate immune signaling in response to the retroviral capsid lattice. Binding to the viral capsid triggers its E3 ubiquitin ligase activity, and in concert with the heterodimeric ubiquitin conjugating enzyme complex UBE2V1-UBE2N (also known as UBC13-UEV1A complex) generates 'Lys-63'-linked polyubiquitin chains, which in turn are catalysts in the autophosphorylation of the MAP3K7/TAK1 complex (includes TAK1, TAB2, and TAB3). Activation of the MAP3K7/TAK1 complex by autophosphorylation results in the induction and expression of NF-kappa-B and MAPK-responsive inflammatory genes, thereby leading to an innate immune response in the infected cell. Restricts infection by N-tropic murine leukemia virus (N-MLV), equine infectious anemia virus (EIAV), simian immunodeficiency virus of macaques (SIVmac), feline immunodeficiency virus (FIV), and bovine immunodeficiency virus (BIV). Plays a role in regulating autophagy through activation of autophagy regulator BECN1 by causing its dissociation from its inhibitors BCL2 and TAB2. Also plays a role in autophagy by acting as a selective autophagy receptor which recognizes and targets HIV-1 capsid protein p24 for autophagic destruction.

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