Tripartite Motif-Containing Protein 5 (TRIM5) Pygathrix Nemaeus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tripartite motif-containing protein 5 (TRIM5), Recombinant Protein
Full Product Name	Recombinant Pygathrix nemaeus Tripartite motif-containing protein 5 (TRIM5)
Product Gene Name	TRIM5 recombinant protein
Product Synonym Gene Name	TRIM5
Sequence	MASGILVNIK EEVTCPICLE LLTEPLSLHC GHSFCQACIT ANHKKSMLYK EGERSCPVCR ISYQPENIRP NRHVANIVEK LREVKLSPEE GQKVDHCARH GEKLLLFCQE DRKVICWLCE RSQEHRGHHT FLMEEVAQEY HVKLQTALEM LRQKQQEAEK LEADIREEKA SWKIQIDCDK TNVLADFEQL REILDWEESN ELQNLEKEEE DILKSLTKSE TEMVQQTQYM RELISDLEHR LQGSMMELLQ GVDGIIKRIE NMTLKKPKTF PKNQRRVFRA PDLKGILDMF RELTDVRRYW VDVTLAPNNI SHAVIAEDKR QVSSPNPQIM CRARGTLFQS LKNFIYCTGV LGSQSITSGK HYWEVDVSKK SAWILGVCAG FQPDAMYNIE QNENYQPKYG YWVIGLQEGV KYNVFQDGSS HTPFAPFIVP LSVIICPDRV GVFVDYEACT VSFFNITNHG FLIYKFSQCS FSKPVFPYLN PRKCTVPMTL CSPSS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	57,146 Da
Sequence Positions	1-495, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q5D7I9
Species	Pygathrix nemaeus (Dove langur) (Douc langur)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TRIM5 recombinant protein	MBS1324680 is a recombinant protein targeting TRIM5. Also known as Recombinant Pygathrix nemaeus Tripartite motif-containing protein 5 (TRIM5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of TRIM5 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRIM5. It may not necessarily be applicable to this product.

NCBI GI #	75060797
NCBI Accession #	Q5D7I9.1
UniProt Primary Accession #	Q5D7I9
NCBI Official Full Name	Tripartite motif-containing protein 5

UniProt Protein Name	Tripartite motif-containing protein 5
UniProt Synonym Protein Names	RING-type E3 ubiquitin transferase TRIM5Curated; TRIM5alpha
Protein Family	Tripartite motif-containing protein
UniProt Gene Name	TRIM5
UniProt Comments for TRIM5	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. Plays a role in regulating autophagy through activation of autophagy regulator BECN1 by causing its dissociation from its inhibitors BCL2 and TAB2.
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