Recombinant TRI13 protein (His tag)

Catalog Number	544152
Synonyms	B-cell chronic lymphocytic leukemia tumor suppressor Leu5; Leukemia-associated protein 5; Putative tumor suppressor RFP2; RING finger protein 77; RING-type E3 ubiquitin transferase TRIM13; Ret finger protein 2; Tripartite motif-containing protein 13
Species	Human
Expression System	E. coli
Accession	O60858
Molecular Weight	Predictes a molecular mass of 37.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 40 kDa band.

Product Information

Sequence Region	1-316
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-316 aa (O60858) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human TRIM13 (E3 ubiquitin-protein ligase TRIM13) Fragment (residues 1-316) is a high-purity, stable protein designed for structural and biochemical studies. This soluble fragment, derived from the full-length E3 ligase involved in endoplasmic reticulum-associated degradation (ERAD) and immune signaling, offers an excellent tool for investigating ubiquitination mechanisms and protein quality control pathways. TRIM13 is an endoplasmic reticulum membrane-anchored E3 ubiquitin ligase that plays a critical role in ER-associated degradation (ERAD), facilitating the retrotranslocation and turnover of both misfolded and correctly folded membrane and secretory proteins. Beyond protein quality control, TRIM13 regulates key cellular processes including enhancing p53 stability and apoptosis through MDM2 and AKT1 ubiquitination, modulating ER stress-induced autophagy, and functioning in innate immune responses by regulating NF-kappa-B activity through multiple pathways including TLR2 signaling, T-cell receptor signaling, and TNF-mediated IKK complex modulation. The protein localizes to the endoplasmic reticulum membrane as a single-pass membrane protein and concentrates at perinuclear ER regions in association with p62/SQSTM1 and ZFYVE1. Evidence suggests TRIM13 may function as a tumor suppressor, making it a protein of significant interest in cancer research and therapeutic development.