

TRIM24 recombinant protein

Recombinant TRIM24 (862-980) protein

CATALOG #
AAA59640

HOST
E Coli

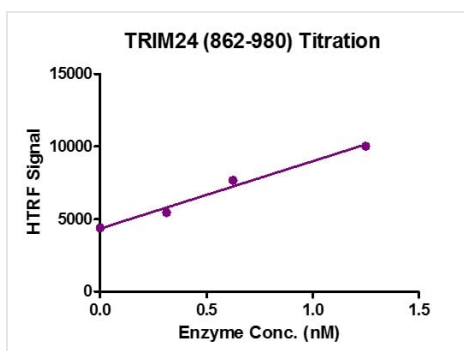
PRODUCT SYNONYMS

TRIM24; Recombinant TRIM24 (862-980) protein; PTC6; TF1A; TIF1; RNF82; TIF1A; hTIF1; TIF1ALPHA; TRIM24 recombinant protein

PRODUCT SPECIFICATIONS

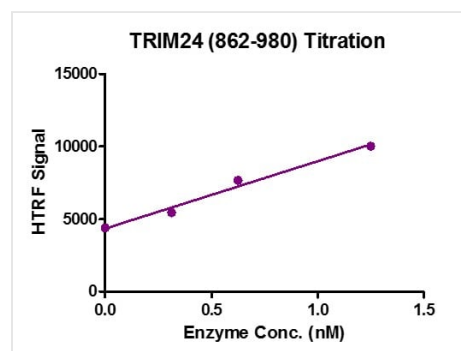
Host	E Coli
Purity/Purification	The recombinant protein is >90% pure by SDS-PAGE.
Form/Format	Recombinant TRIM24 (862-980) protein expressed in E Coli and supplied in 25mM Tris pH8.0, 500mM NaCl, 20% glycerol.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant TRIM24 (862-980) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



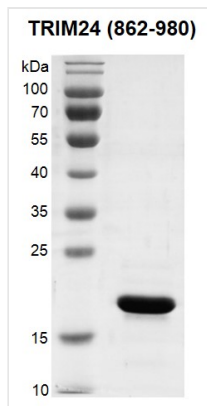
Application Data

HTRF Assay for Recombinant TRIM24 (862-980) activity. 3 μ M histone peptide H3K14ac was incubated with TRIM24 (862-980) protein in reaction buffer including 50 mM HEPES-NaOH pH 7.0, 0.1% BSA for 1 hour at room temperature. Anti-DYKDDDDK antibody was used to detect reaction products.



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SDS-PAGE

Recombinant TRIM24 (862-980) protein gel. TRIM24 (862-980) protein was run on a 12% SDS-PAGE gel and stained with Coomassie Blue. MW: 18.8 kDa Purity: > 95%

ADDITIONAL INFORMATION

Related Product Information for TRIM24 recombinant protein	Short Description: The peptide corresponding to amino acids 862-980 that contains the bromodomain sequences of TRIM24 (accession number NM_003852.3) was expressed in E. coli and contains an N-terminal His-tag and C-terminal DYKDDDDK tag with an observed molecular weight of 18.8 kDa. It shows binding specificity for acetylated H3K9, H3K14 and H3K16. Tripartite motif-containing 24 (TRIM24) protein, also known as TIF1a, is a member of the transcriptional intermediary factor 1 (TIF1) family that control transcription and chromatin remodeling through their interaction with transcription factors. The family includes TRIM24 (TIF1a), TRIM28 (TIF1b) and TRIM33 (TIF1g) that share a characteristic domain structure comprised of multiple histone-binding domains, an N-terminal TRIM region (containing a RING domain, B box type 1 and type 2 domains, and a coiled-coil region), and a C-terminal bromodomain and PHD finger. Bromodomains function as 'readers' of epigenetic histone marks and regulate chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. TRIM24 interacts with chromatin through recognition of specific histone H3 modifications, having the highest affinity for histone H3 that is both unmodified at lysine 4 (H3K4me0) and acetylated at lysine 23 (H3K23ac). TRIM24 is an E3 ubiquitin-protein ligase that promotes proteasomal degradation of p53/TP53 and, in conjunction with TRIM33, mediates cell proliferation and apoptosis. TRIM24 also modulates transcriptional activation by retinoic acid (RA) receptors, including RARA, and has been shown to regulate RA-dependent proliferation of hepatocytes. TRIM24 functions as a transcriptional coactivator that interacts with the AF2 region of numerous nuclear receptors, including estrogen, RA and vitamin D3 receptors, and coactivators to modulate the transcription of target genes. It has been shown to be involved in upregulating ligand-dependent transcription activation by AR, GCR/NR3C1, thyroid hormone receptor (TR) and ESR1. Recombinant TRIM24 (862-980) can be used in binding assays and inhibitor screening. Background: Tripartite motif-containing 24 (TRIM24) protein, also known as TIF1a, is a member of the transcriptional intermediary factor 1 (TIF1) family that control transcription and chromatin remodeling through their interaction with transcription factors. The family includes TRIM24 (TIF1a), TRIM28 (TIF1b) and TRIM33 (TIF1g) that share a characteristic domain structure comprised of multiple histone-binding domains, an N-terminal TRIM region (containing a RING domain, B box type 1 and type 2 domains, and a coiled-coil region), and a C-terminal bromodomain and PHD finger. Bromodomains function as 'readers' of epigenetic histone marks and regulate chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. TRIM24 interacts with chromatin through recognition of specific histone H3 modifications, having the highest affinity for histone H3 that is both unmodified at lysine 4 (H3K4me0) and acetylated at lysine 23 (H3K23ac). TRIM24 is an E3 ubiquitin-protein ligase that promotes proteasomal degradation of p53/TP53 and, in conjunction with TRIM33, mediates cell proliferation and apoptosis. TRIM24 also modulates transcriptional activation by retinoic acid (RA) receptors, including RARA, and has been shown to regulate RA-dependent proliferation of hepatocytes. TRIM24 functions as a transcriptional coactivator that interacts with the AF2 region of numerous nuclear receptors, including estrogen, RA and vitamin D3 receptors, and coactivators to modulate the transcription of target genes. It has been shown to be involved in upregulating ligand-dependent transcription activation by AR, GCR/NR3C1, thyroid hormone receptor (TR) and ESR1.
Product Categories/Family for TRIM24 recombinant protein	Recombinant Proteins; Bromodomain

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_003852.3
Molecular Weight	Molecular weight of 18.8kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/trim24-recombinant-protein-e-coli/59640>