

Recombinant Human TRIM24, GST-tagged

Cat. No. TRIM24-166H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TRIM24 bromodomain (896-1014 aa) fused to a GST tag at the N-terminus
Species	Human
Source	E.coli
ProteinLength	896-1014 a.a.
Description	The acetylation of histone lysine residues plays a crucial role in the epigenetic regulation of gene transcription. A bromodomain is a protein domain that recognizes acetylated lysine residues such as those on the N-terminal tails of histones. This recognition is often a prerequisite for protein-histone association and chromatin remodeling. These domains function in the linking of protein complexes to acetylated nucleosomes, thereby controlling chromatin structure and gene expression. Thus, bromodomains serve as “readers” of histone acetylation marks regulating the transcription of target promoters. TRIM24 is a transcriptional cofactor, whose inactivation leads to hepatocellular carcinoma in mice.³ The N-terminal TRIM domain of TRIM24 binds ligand-bound nuclear receptors, while its tandem C-terminal plant homeo-domain and bromodomain target TRIM24 to acetylated histones in chromatin. This product contains the bromodomain region of TRIM24.
Form	Liquid. 50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5 mM β-mercaptoethanol and 5% glycerol.

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Molecular Mass	40.9 kDa (896-1014 aa + NT GST Tag)
Purity	≥95%
Storage	Store at -80°C. Avoid repeated freeze and thaw cycles. Stable for 1 year.
GENE INFORMATION	
Gene Name	TRIM24 tripartite motif containing 24 [Homo sapiens]
Official Symbol	TRIM24
Synonyms	TRIM24; tripartite motif containing 24; TIF1, transcriptional intermediary factor 1 , tripartite motif containing 24; transcription intermediary factor 1-alpha; hTIF1; RNF82; TIF1A; Tif1a; TIF1-alpha; RING finger protein 82; tripartite motif-containing 24; E3 ubiquitin-protein ligase TRIM24; transcriptional intermediary factor 1; PTC6; TF1A; TIF1; TIF1ALPHA;
Gene ID	8805
mRNA Refseq	NM_003852
Protein Refseq	NP_003843
MIM	603406
UniProt ID	O15164
Chromosome Location	7q32-q34
Pathway	Regulation of Androgen receptor activity, organism-specific biosystem;

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Function

chromatin binding; estrogen response element binding; histone acetyl-lysine binding; ligand-dependent nuclear receptor binding; ligase activity; metal ion binding; NOT methylated histone residue binding; p53 binding; protein binding; protein kinase activity; receptor binding; sequence-specific DNA binding; transcription coactivator activity; ubiquitin-protein ligase activity; zinc ion binding;

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