Recombinant Human BPTF, GST-tagged

Cat. No. BPTF-156H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BPTF bromodomain (2796-2907 aa) fused to a GST tag at the N-terminus
Species	Human
Source	E.coli
ProteinLength	2796-2907 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. BPTF is the largest component of the NURF chromatin remodeling complex. It includes adjacent PHD and bromodomains which recognize trimethylation of H3K4 or acetylation of lysines in histone 4, respectively. BPTF is an essential regulator of gene expression in early mouse embryos, and its knock-out is embryonic lethal. Duplication of the BPTF gene has been suggested to increase proliferation of cultured cancer cells, and aberrant BPTF copy numbers were found in 42% of the “NCI-60” panel of 60 human cancer cell lines. This protein product contains the bromodomain of BPTF.

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Form	Liquid. 50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5 mM β-mercaptoethanol and 5% glycerol.
Molecular Mass	40.1 kDa (2796-2907 aa + NT GST Tag)
Purity	≥80%
Storage	Store at -80°C. Avoid repeated freeze and thaw cycles. Stable for 1 year.

GENE INFORMATION

Gene Name	BPTF bromodomain PHD finger transcription factor [Homo sapiens]
Official Symbol	BPTF
Synonyms	BPTF; bromodomain PHD finger transcription factor; FALZ, fetal Alzheimer antigen; nucleosome-remodeling factor subunit BPTF; FAC1; NURF301; fetal Alzheimer antigen; fetal Alz-50 clone 1 protein; fetal Alz-50 reactive clone 1; nucleosome remodeling factor, large subunit; bromodomain and PHD domain transcription factor; bromodomain and PHD finger-containing transcription factor; FALZ;
Gene ID	2186
mRNA Refseq	NM_004459
Protein Refseq	NP_004450
MIM	601819
UniProt ID	Q12830

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Chromosome Location	17q24
Function	contributes_to DNA-dependent ATPase activity; metal ion binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding; transcription factor binding; zinc ion binding;

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