Recombinant Human BRD3, GST-tagged

Cat. No. BRD3-157H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BRD3 bromodomain 1 (24-144 aa) fused to a GST tag at the N-terminus
Species	Human
Source	E.coli
ProteinLength	24-144 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. The BET family of proteins, defined by tandem Bromodomains and an Extra Terminal domain, include BRD2, BRD3, BRD4, and BRDT. The BET proteins play a key role in many cellular processes, including inflammatory gene expression, mitosis, and viral/host interactions. The isolated individual or tandem bromodomains of BRD3 have been shown to bind acetylated histone tails, serving to couple histone acetylation marks to the transcriptional regulation of target promoters. Small molecule inhibitors of these interactions hold promise as useful therapeutics for human disease.

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Form	Liquid. 50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5% glycerol, and 5 mM β-mercaptoethanol.
Molecular Mass	41.2 kDa (24-144 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	BRD3 bromodomain containing 3 [Homo sapiens]
Official Symbol	BRD3
Synonyms	BRD3; bromodomain containing 3; bromodomain-containing protein 3; KIAA0043; ORFX; RING3 like; RING3L; RING3-like protein; bromodomain-containing 3; FLJ23227; FLJ41328;
Gene ID	8019
mRNA Refseq	NM_007371
Protein Refseq	NP_031397
MIM	601541
UniProt ID	Q15059
Chromosome Location	9q34

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Function	molecular_function; protein binding;

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