Recombinant Human BRD9, GST-tagged

Cat. No. BRD9-1908H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BRD9 (21-137 aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	21-137 aa
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. Human BRD9 contains a single bromodomain and has five isoforms that are produced by alternative splicing. This product contains the bromodomain region of BRD9.This protein can be used for the study of bromodomain binding assays, screening inhibitors, and selectivity profiling.

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Appearance	Liquid
Form	50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5% glycerol, and 5 mM β-mercaptoethanol.
Molecular Mass	40.7 kDa (21-137 aa + GST Tag)
Purity	≥95% by SDS-PAGE
Usage	For Research Use Only! Not For Use in Humans.
Storage	Store at -80°C. Avoid repeated freeze and thaw cycles. Stable for 1 year.

GENE INFORMATION

Gene Name	BRD9 bromodomain containing 9 [Homo sapiens (human)]
Official Symbol	BRD9
Synonyms	BRD9; bromodomain containing 9; PRO9856; LAVS3040; bromodomain-containing protein 9; sarcoma antigen NY-SAR-29; rhabdomyosarcoma antigen MU-RMS-40.8
Gene ID	65980
mRNA Refseq	NM_023924
Protein Refseq	NP_076413
UniProt ID	Q9H8M2
Chromosome Location	5p15.33

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Function	histone acetyl-lysine binding; nucleic acid binding

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