

Recombinant Human BRD1, GST-tagged

Cat. No. BRD1-1900H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BRD1 (556-680 aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	556-680 aa
Description	<p>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. BRD1 is a bromodomain containing protein that has been identified as a susceptibility gene in neurological disorders, such as schizophrenia and bipolar affective disorder. This protein can be used for the study of bromodomain binding assays, screening inhibitors, and selectivity profiling.</p>
Appearance	Liquid
Form	50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5% glycerol, and 5 mM β-mercaptoethanol.

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Molecular Mass	41.1 kDa (556-680 aa + NT 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	BRD1 bromodomain containing 1 [Homo sapiens (human)]
Official Symbol	BRD1
Synonyms	BRD1; bromodomain containing 1; BRL; BRPF1; BRPF2; bromodomain-containing protein 1; BR140-like protein; bromodomain and PHD finger-containing protein 2
Gene ID	23774
mRNA Refseq	NM_014577
Protein Refseq	NP_055392
MIM	604589
UniProt ID	O95696
Chromosome Location	22q13.33
Function	histone binding; zinc ion binding

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