

Product Information



BRD1 bromodomain (human recombinant)

Item No. 11507 • Batch No. XXXXXX

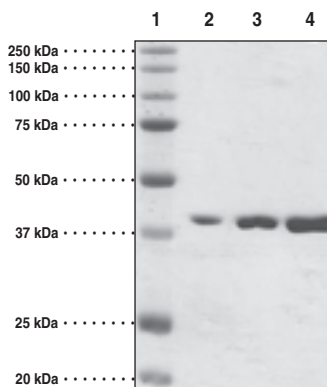
Synonyms:	BR140-like protein, BRL, Bromodomain and PHD finger-containing protein 2, Bromodomain containing protein 1, BRPF1, BRPF2, DKFZp686F0325
Source:	Recombinant N-terminal GST-tagged protein expressed in <i>E. coli</i>
Amino Acids:	556-680 (partial protein)
Genbank Accession No.:	AAH30007
M_r:	41.1 kDa
Purity:	≥95%
Stability:	≥1 year at -80°C; avoid freeze/thaw cycles by aliquoting protein.
Supplied in:	50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5% glycerol, and 5 mM β-mercaptoethanol
Protein Concentration:	<i>batch specific</i> mg/ml

The acetylation of histone lysine residues plays a crucial role in the epigenetic regulation of gene transcription. Acetylated lysine residues are recognized by a small protein domain known as a bromodomain.¹ 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.²

BRD1 is a bromodomain containing protein that has been identified as a susceptibility gene in neurological disorders, such as schizophrenia and bipolar affective disorder.³

References

1. Mujtaba, S., Zeng, L., and Zhou, M.-M. Structure and acetyl-lysine recognition of the bromodomain. *Oncogene* **26**, 5521-5527 (2011).
2. Muller, S., Filippakopoulos, P., and Knapp, S. Bromodomains as therapeutic targets. *Expert Rev. Mol. Med.* **13**, 1-21 (2011).
3. Severinsen, J.E., Bjarkam, C.R., Kiaer-Larsen, S., *et al.* Evidence implicating BRD1 with brain development and susceptibility to both schizophrenia and bipolar affective disorder. *Mol. Psychiatry* **11**, 1126-1138 (2006).



Lane 1: MW Markers
Lane 2: BRD1 (2 µg)
Lane 3: BRD1 (5 µg)
Lane 4: BRD1 (10 µg)

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