

Product Information



BAZ2B bromodomain (human recombinant)

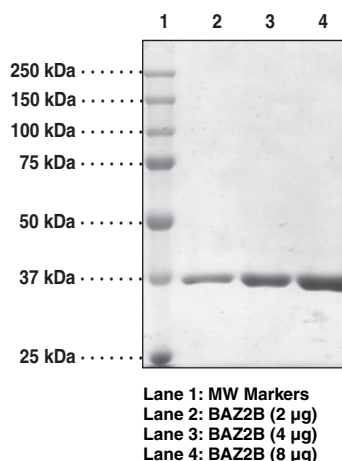
Item No. 11917 • Batch No. XXXXXX

Synonyms: Bromodomain Adjacent to Zinc Finger Domain 2B, KIAA1476, WALp4
Source: Recombinant N-terminal GST-tagged protein expressed in *E. coli*
Amino Acids: 2,064-2,168 (partial protein)
Genbank Accession No.: NP_038478
M_r: 40.2 kDa
Purity: ≥80% estimated by SDS-PAGE
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: *batch specific* 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 linking 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

BAZ2B is expressed in heart, skeletal, testis, and pancreatic tissues.³ A rare allele of BAZ2B has been identified to be a predictor of Sudden Cardiac Death.⁴ The full-length protein contains several DNA-targeting domains, including a methyl-CpG binding domain, a DNA-binding DDT domain, and a tandem PHD-bromodomain. This protein product contains the bromodomain of BAZ2B.



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. Roloff, T.C., Ropers, H.H., and Nuber, U.A. Comparative study of methyl-CpG-binding domain proteins. *BMC Genomics* **4**(1), 1-9 (2003).
4. Arking, D.E., Juntila, M.J., Goyette, P., *et al.* Identification of a sudden cardiac death susceptibility locus at 2q24.2 through genome-wide association in European ancestry individuals. *PLoS Genet.* **7**(6), 1-9 (2011).

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SAFETY DATA

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Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com