BRD7 bromodomain (human recombinant)

Item No. 14491 • Batch No. XXXXXX

Synonyms: Bromodomain containing protein 7, Protein CELTIX-1
Source: Recombinant N-terminal GST-tagged protein expressed in E. coli
Amino Acids: 129-252 (partial protein)
Genbank Accession No.: NP_037395
Mₜ: 42.2 kDa
Purity: ≥90%
Stability: ≥1 year at -80°C; avoid freeze/thaw cycles by aliquoting protein.
Supplied in: 50 mM Tris, pH 8.0, containing 150 mM sodium chloride and 20% glycerol
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. 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. BRD7 is a subunit of the polybromo-associated BRG1-associated factor (PBAF)-specific component of the switch/sucrose non-fermentable chromatin-remodeling complex. It has a tumor suppressor role by acting as a cofactor for p53 and regulating breast cancer tumorigenicity. Cells lacking BRD7 have reduced breast cancer type I-dependent estrogen receptor α expression. Down-regulation of BRD7 has been demonstrated in nasopharyngeal carcinoma cell lines and in colorectal cancer. BRD7 is also involved in transcriptional gene silencing through binding to protein arginine methyltransferase 5 and polycomb repressive complex 2. This protein product contains the bromodomain region of BRD7.

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/14491

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Safety Data
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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