

# BRD3-Bromodomain1 (29-145 aa) (His-Tagged) human recombinant

**CATALOG #:** 7256-20 20 µg  
7256-100 100 µg  
7256-1000 1 mg

**ALTERNATE NAMES:** KIAA0043, RING3L

**SOURCE:** E. coli

**PURITY:** ≥98% by SDS-PAGE

**MOL. WEIGHT:** 16.2 kDa (117 aa, 29-145 aa + NT 6x His Tag)

**FORM:** Liquid

**FORMULATION:** rh-BRD3-BD1 is supplied as a solution (2 mg/ml) in PBS Buffer containing 10% glycerol.

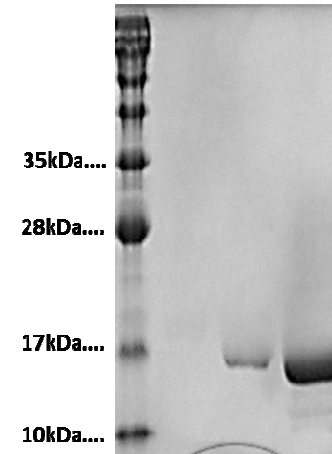
**STORAGE CONDITIONS:** Stable for 1 year at -80°C. Avoid multiple freeze/thaw cycles as activity may decrease.

**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. BRD3 binds hyper-acetylated chromatin and plays a role in the regulation of transcription, probably by chromatin remodeling and interaction with transcription factors. It regulates transcription by promoting the binding of the transcription factor GATA1 to its targets and transcription of the CCND1 gene. A chromosomal aberration involving BRD3 was found in a rare, aggressive, and lethal carcinoma arising in midline organs of young people. The recombinant protein includes Bromodomain-containing protein 3 (contains 29-145 aa) with N-terminal His-tag.

**APPLICATION AND USAGE:**

BRD3 is useful in studying bromodomain binding assays, screening inhibitors and selectivity profiling.



Lane 1: MW markers  
Lane 2: hBRD3-BD1, 0.01µg  
Lane 3: hBRD3-BD1, 0.1µg  
Lane 4: hBRD3-BD1, 0.5µg

SDS-PAGE (15%) of purified BRD3-BD1 protein

**RELATED PRODUCTS:**

- Recombinant Human BrdT (22-138 aa) (Cat. No. 7641-20, 100, -1000)
- Recombinant Human BRD4 (Cat. No. 7644-20, 100, -1000)
- Human recombinant BRD1 bromodomain (Cat. No. 7645-20, 100)
- Human recombinant BRD2 bromodomains 1 (Cat. No. 7646-20, 100)
- Human recombinant BRD2 bromodomain 1 and 2 (Cat. No. 7647-20, 100)
- Human recombinant BRD2 bromodomain 2 (Cat. No. 7648-20, 100)
- Human recombinant BRD9 bromodomain (Cat. No. 7649-20, 100)
- Bromodomain Inhibitor, (+)-JQ1 (Cat. No. 2070-1, -5)
- BRD8 Antibody (Cat. No. 3738-100)
- BRD8 Antibody (Cat. No. 3506-100)
- BRD8 Blocking Peptide (Cat. No. 3506BP-50)
- EZSolution™ (+)-JQ1 (Cat. No. 2091-1)
- I-BET151 (Cat. No. 2220-1, -5)
- PFI-1 (Cat. No. 2203-1, -5)

**FOR RESEARCH USE ONLY! Not to be used on humans.**