

BRD4 recombinant protein

Recombinant BRD4 protein

CATALOG #
AAA60413

HOST
E coli

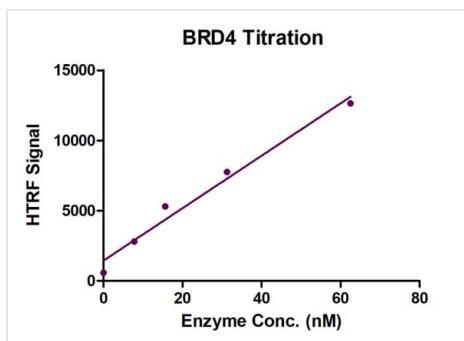
PRODUCT SYNONYMS

BRD4; Recombinant BRD4 protein; Bromodomain containing protein 4; HUNK1; FSHRG4; HUNKI; MCAP; CAP; BRD4 recombinant protein

PRODUCT SPECIFICATIONS

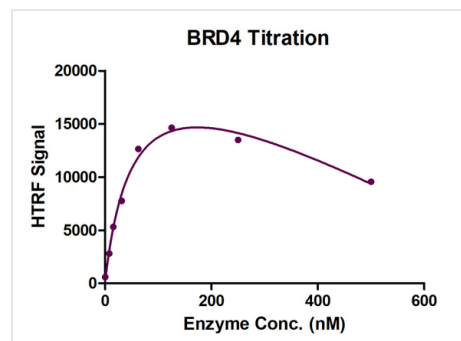
Host	E coli
Purity/Purification	>=95% by SDS-PAGE.
Form/Format	Recombinant BRD4 protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant BRD4 protein that includes full length of human BRD4 protein (accession number NP_055114.1) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK tag with a molecular weight of 81.7kDa.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



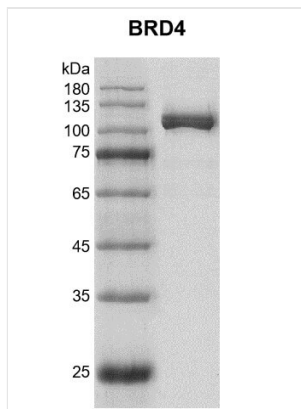
Application Data

HTRF Assay for Recombinant BRD4 activity 3 μ M histone peptide H4K5/8/12/16(ac4) was incubated with BRD4 in reaction buffer including 50 mM HEPES-NaOH pH 7.0, 0.1% BSA for 1 hour at room temperature. Anti-DYKDDDDK antibody was used to detect reaction products. All the operations and reactions were performed at room temperature. HTRF was used to detect the products.



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SDS-PAGE

Recombinant BRD4 protein gel 10% SDS-PAGE Coomassie staining MW: 81.7kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for BRD4 recombinant protein

Bromodomain-containing protein 4 (BRD4) belongs to the BET subclass of proteins, which are characterized by two N-terminal bromodomains and one ET (Extra Terminal) domain. BRDs associate with chromatin through their bromodomains that recognize acetylated histone lysine residues. Bromodomains function as 'readers' of these epigenetic histone marks and regulate chromatin structure and gene expression by linking associated proteins to the acetylated nucleosomal targets. The ET domain functions as a protein binding motif and exerts atypical serine-kinase activity. The BET family consists of at least four members in mouse and human, BRD2 (also referred to as FSRG1, RING3), BRD3 (FSRG2, ORFX), BRD4 (FSRG4, MCAP/HUNK1), and BRDT (FSRG3, BRD6). BRD proteins are related to the female sterile homeotic protein gene in *Drosophila*, a gene required maternally for proper expression of other homeotic genes, such as *Ubx*, which is involved in pattern formation. BRD4 has been identified recently as a therapeutic target in many cancers, including acute myeloid leukemia, multiple myeloma, Burkitt's lymphoma, NUT midline carcinoma, colon cancer, and breast cancer. BRD4 regulates the transcription of oncogenes, HIV, and human papilloma virus (HPV). It has been shown to bind and phosphorylate RNA pol II, which implicates its involvement in the regulation of eukaryotic transcription. It shows binding specificity for acetylated H3K9, H3K9/K14, H4K5, H4K8, H4K12, H4K5/K8, H4K5/K12, H4K8/K12, H4K12/K16, H4K12/K16/K20 and H4K5/K8/K12/K16, as well as acetylated RelA-K310.

Product Categories/Family for BRD4 recombinant protein

Bromodomain; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

Molecular Weight

81.7kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/brd4-recombinant-protein-e-coli/60413>