

BRD4 recombinant protein

Recombinant BRD4 (44-460) protein, GST-Tag

CATALOG #
AAA60164

HOST
E Coli

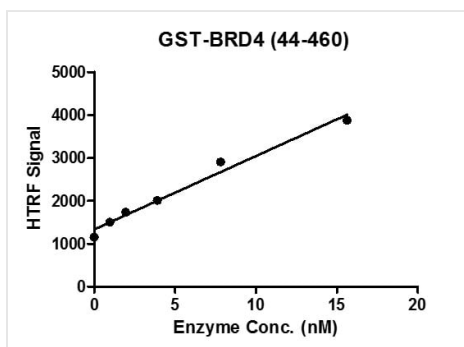
PRODUCT SYNONYMS

BRD4; Recombinant BRD4 (44-460) protein; GST-Tag; HUNK1; Bromodomain containing 4; BRD4 recombinant protein

PRODUCT SPECIFICATIONS

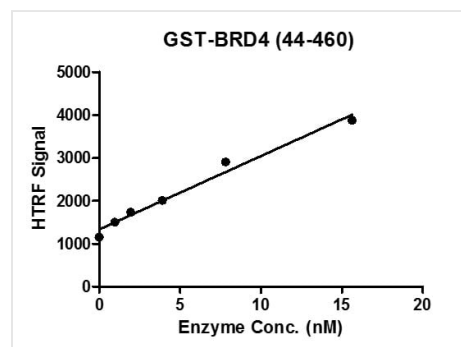
Host	E Coli
Form/Format	Recombinant BRD (44-460), GST-Tag protein is supplied in 25mM Tris-HCl pH8.0, 300mM NaCl, 10% glycerol.
Protein Species	Human
Tag	GST-Tag
Notes	This protein is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
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. Shipping Temp: Dry Ice

IMAGES



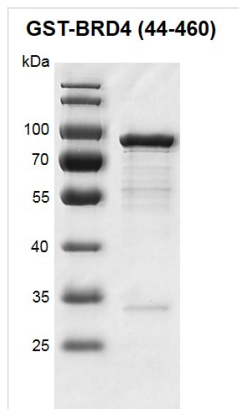
Application Data

HTRF assay for BRD4 (44-460), GST-Tag activity 1 μ M H4K5/8/12/16(ac4) peptide was incubated with different concentrations of BRD4 (44-460), GST-tag protein in a 10 μ l binding system containing 50 mM HEPES-NaOH pH 7.4, 0.1% BSA for 1 hour, then 10 μ l GST antibody and SA-XL665 mixture (each 1:100 dilution in Binding Buffer) were added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant BRD4 (44-460), GST-Tag protein gel 10% SDS-PAGE Coomassie staining MW:
73.2 kDa Purity: >88%

ADDITIONAL INFORMATION

Related Product Information for BRD4 recombinant protein	Short Description: Recombinant BRD4 (44-460), GST-Tag protein includes amino acids 44-460 (which includes both the first and second Bromodomain) of human BRD4 protein (accession number NP_490597.1); it was expressed in E Coli and contains an N-terminal GST-Tag with a molecular weight of 73.2 kDa. This protein is suitable for use in binding assays, inhibitor screening, and selectivity profiling. Background: BRD4 (Bromodomain-containing protein 4) 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	Recombinant Proteins ; Bromodomain

NCBI AND UNIPROT INFORMATION

NCBI GI #	19718731
NCBI GeneID	23476
NCBI Accession #	NP_490597.1 ; NP_055114.1 ; NP_065254.3
NCBI GenBank Nucleotide #	NM_058243.2
UniProt Accession #	O60885 ; O60433 ; Q4G0X8 ; Q86YS8 ; Q96PD3
Molecular Weight	155.8kDa
NCBI Official Full Name	bromodomain-containing protein 4 isoform long
NCBI Official Synonym Full Names	bromodomain containing 4
NCBI Official Symbol	BRD4
NCBI Official Synonym Symbols	CAP; MCAP; HUNK1; HUNKI

NCBI Protein Information	bromodomain-containing protein 4
UniProt Protein Name	Bromodomain-containing protein 4
UniProt Gene Name	BRD4
UniProt Synonym Gene Names	HUNK1
UniProt Entry Name	BRD4_HUMAN

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/60164>