

Active Recombinant Human BRD4 (BD1) Protein (49-170), N-His tagged

Cat. No. BRD4-35H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant human BRD4 (BD1) (49-170) was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	49-170
Description	Bromodomain-containing protein 4 (BRD4) is a member of the bromodomain and extra-terminal domain (BET) protein family. BRD4 contains two tandem bromodomains: BD1 and BD2. BRD4 (BD1) functions as an epigenetic reader – recognizing and interpreting histone acetylation marks to recruit transcriptional machinery and chromatin remodeling complexes. BRD4 (BD1) is involved in the regulation of cell cycle progression, with its overexpression promoting cell proliferation and survival. Furthermore, it has been implicated in the development and progression of cancer as it regulates the expression of oncogenes and tumor suppressor genes.
Bio-activity	2,908 ng/min/mg
Molecular Mass	Observed MW: ~15 kDa Calculated MW: ~14.7 kDa
Purity	> 90%

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Stability	One year at –70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µL
Storage Buffer	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.25mM DTT, 25% glycerol.
Shipping	Dry ice

GENE INFORMATION

Gene Name	BRD4 bromodomain containing 4 [Homo sapiens (human)]
Official Symbol	BRD4
Synonyms	BRD4; bromodomain containing 4; bromodomain-containing protein 4; CAP; chromosome associated protein; HUNK1; HUNKI; MCAP; bromodomain-containing 4; chromosome-associated protein;
Gene ID	23476
mRNA Refseq	NM_014299
Protein Refseq	NP_055114
MIM	608749

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UniProt ID	O60885
Specific Activity	The binding activity of BRD4 (BD1) was determined to be 2,908 ng/min/mg towards acetylated peptide substrate as per the activity assay protocol.
Purity	The purity of BRD4 (BD1) was determined to be > 90% by densitometry.

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