

Active Recombinant Human BRD2 Protein (339-459), N-His tagged

Cat. No. BRD2-34H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant human BRD2 (339-459) was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	339-459
Description	Bromodomain-containing protein 2 (BRD2) is a member of the bromodomain and extra-terminal domain (BET) protein family. BRD2 is known to interact with transcriptional machinery and chromatin remodeling complexes, enabling its involvement in the regulation of gene expression. By binding to acetylated histones, BRD2 recruits transcriptional activators or repressors, thereby modulating the accessibility of DNA to transcription factors and RNA polymerase machinery. BRD2 has been found to contribute to the development of cancer by regulating the expression of oncogenes or tumor suppressor genes.
Bio-activity	1,272 ng/min/mg
Molecular Mass	Observed MW: ~15 kDa Calculated MW: ~14.6 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	BRD2 bromodomain containing 2 [Homo sapiens (human)]
Official Symbol	BRD2
Synonyms	BRD2; bromodomain containing 2; bromodomain-containing protein 2; D6S113E; FSRG1; KIAA9001; NAT; RING3; O27.1.1; bromodomain-containing 2; really interesting new gene 3 protein; female sterile homeotic-related gene 1; FSH; RNF3; FLJ31942; DKFZp686N0336;
Gene ID	6046
mRNA Refseq	NM_005104
Protein Refseq	NP_005095
MIM	601540

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UniProt ID P25440**Specific Activity**

The binding activity of BRD2 (BD2) was determined to be 1,272 ng/min/mg towards acetylated peptide substrate as per the activity assay protocol.

Purity

The purity of BRD2 was determined to be > 90% by densitometry.

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