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MATERIAL DATA SHEET

BRD4 (49-460), His10 tag, FLAG tag, *human recombinant* Cat. # SP-600

Bromodomain-containing protein 4 (BRD4) is a member of the BET class chromatin reader proteins that bind acetylated histones and play a key role in transcriptional regulation and transmission of epigenetic memory. BRD4 has two N-terminal bromodomains and one NET (N-terminal Extra Terminal) domain. BRD bromodomains serve as recognition motifs for acetylated lysine residues on histones, while the NET domain may function by promoting phosphorylation of the C-terminal domain (CTD) of RNA polymerase II. BRD4 is a potential therapeutic target in many diseases including breast cancer, AML, multiple myeloma, colon cancer and others. This recombinant protein contains an N-terminal portion of BRD4 including both bromodomains and contains both His10 and FLAG tags at the N-terminus. This protein is useful as a substrate in *in vitro* assays using recombinant E3 Ubiquitin ligases and small molecule degraders.

Product Information

Quantity:	100 µg
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 1 mM DTT
MW:	52 kDa
Purity:	> 95 % by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue Stain.

Use & Storage

Use:	Concentrations for <i>in vitro</i> assays will depend on experimental conditions and detection methods.
Storage:	Store at -80°C

Literature

References:	Devaiah B.N. <i>et al.</i> (2012) <u>Proc. Natl. Acad. Sci.</u> 109 : 6927
	Gadd M.S. <i>et al.</i> (2017) <u>Nat. Chem. Biol.</u> 13 : 514
	Wang R. <i>et al.</i> (2012) <u>J Biol. Chem.</u> 287 : 10738
	Zhang W. <i>et al.</i> (1994) <u>J Biol. Chem.</u> 269 : 43137

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Rev: 10/2/2019

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