Recombinant Human His8-(DYKDDDDK) BRD4

Catalog Number: SP-600

DESCRIPTION

Source	*E. coli*-derived human BRD4 protein Glu49 - Glu460 with N-terminal 8-His and (DYKDDDDK) tags Accession # O60885.2
Predicted Molecular Mass	52 kDa

SPECIFICATIONS

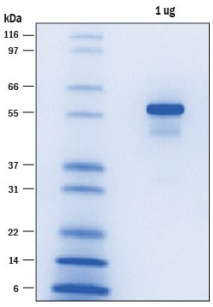
Activity	This protein is useful as a substrate in *in vitro* assays using recombinant E3 Ubiquitin ligases and small molecule degraders. Reaction conditions will need to be optimized for each specific application.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.
Formulation	Supplied as a solution in HEPES, NaCl, DTT and Glycerol. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Shipping	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 6 months from date of receipt, -70 °C as supplied. • 3 months, -70 °C under sterile conditions after opening.

DATA

SDS-PAGE



Recombinant Human His8-(DYKDDDDK)-BRD4 (49-460) Protein SDS-PAGE 1 µg per lane of Recombinant Human His8-(DYKDDDDK)-BRD4 (49-460 (Catalog # SP-600) was resolved with SDS-PAGE under reducing conditions and visualized by colloidal Coomassie Blue staining, showing a band at 57 kDa.

BACKGROUND

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. This protein is useful as a substrate in *in vitro* assays using recombinant E3 Ubiquitin ligases and small molecule degraders.

References:

1. Devaiah, B.N. *et al.* (2012) Proc. Natl. Acad. Sci. **109**:6927.
2. Gadd, M.S. *et al.* (2017) Nat. Chem. Biol. **13**:514.
3. Wang, R. *et al.* (2012) J. Biol. Chem. **287**:10738.
4. Zhang, W. *et al.* (1994) J. Biol. Chem. **287**:43137.

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