

Product Name: BRD4 Bromodomain Proteins Set

Product Code: TPS-131

Quantity: 3 x 25 µg

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

All BRD4 Bromodomain constructs were tested individually and were active in ternary complex formation assays using recombinant CRBN/DDB1 and the degrader molecule dBET-1.

Physical Characteristics

Species: Human

Predicted MW (kDa):

BRD4-BD1: 17 kDa

BRD4-BD2: 21 kDa

BRD4-BD1+BD2: 49 kDa

Source: *E. coli* BL21

Purity: 95 %

Tags:

BRD4-BD1: N-AVI (Biotinylated)

BRD4-BD2: N-AVI (Biotinylated)

BRD4-BD1+BD2: N-AVI (Biotinylated)

Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

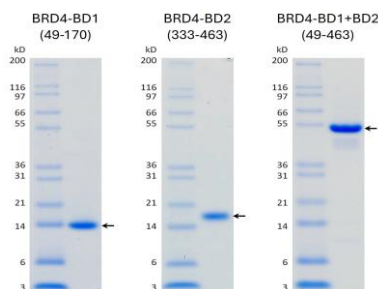
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: Bromodomain-containing protein 4



2 μ each of BRD4-BD1, BRD4-BD2, & BRD4-BD1+BD2 run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Ternary Complex Assay.

Background

Description

The BRD4 Bromodomain Proteins Set includes site-specifically biotinylated recombinant BRD4 Bromodomain 1 (BRD4-BD1; aa 49–170), BRD4 Bromodomain 2 (BRD4-BD2; aa 333–463), and tandem BRD4 Bromodomains 1 & 2 (BRD4-BD1+BD2; aa 49–463) constructs for studying BET protein function and ligand recognition. The proteins support biochemical assays, inhibitor profiling, assay development, and drug discovery applications, including SPR, BLI, ELISA-based binding, affinity capture, and pull-down workflows using streptavidin-based immobilization.

Accession Number: O60885

Entrez Gene ID: BRD4

Associated Products

TAP-077: BRD4-BD1 (49-170)

TAP-128: BRD4-BD2 (333-463)

TAP-070: BRD4-BD1+BD2 (49-463)

Protein Sequence

BRD4-BD1:

SFGLNDIFEAQKIEWHETSNPNKPKRQTNQLQYLLRVVLKTLWKHQFAWPFQQPVDVAVKLNLP
DYYKIIKTPMDMGTIKKRENNYYWNAQECIQDFNTMFTNCYIYNKPGDDIVLMAEALEKLFL
QKINELPTEETE

BRD4-BD2:

SFGLNDIFEAQKIEWHEGSKDVPDSQQHPAPEKSSKVSEQLKCCSGILKEMFAKKHAAYAWPF
YKPVDVEALGLHDYCDIIKHPMDMSTIKSKLEAREYRDAQEFGADVRLMFSNCYKYNPPDHEV
VAMARKLQDVFEMRFAKMPDEPEE

BRD4-BD1+BD2:

SFGLNDIFEAQKIEWHEGSETSNPNKPKRQTNQLQYLLRVVLKTLWKHQFAWPFQQPVDVAVKL
NLPDYYKIIKTPMDMGTIKKRENNYYWNAQECIQDFNTMFTNCYIYNKPGDDIVLMAEALEK
LFLQKINELPTEETEIMIVQAKGRGRGRKETGTAKPGVSTVPNTTQASTPPQTQTPQPNPPPV
QATPHPPFAVTPDLIVQTPVMTVVPVPPQPLQTPPPVPPQPQPPAPAPQPVQSHPIIAATPQP
VKTKKGVKRKADTTTPTTIDPIHEPPSLPPEPKTTKLGQRRESSRPVKPPKDVDPDSQQHPAP
EKSSKVSEQLKCCSGILKEMFAKKHAAYAWPFYKPVDVEALGLHDYCDIIKHPMDMSTIKSKL
EAREYRDAQEFGADVRLMFSNCYKYNPPDHEVVAMARKLQDVFEMRFAKMPDEPEE