Product Name: Recombinant Human BRD4 (N-10His-Flag)
Catalog #: PEH2254

Summary

Name	BRD4
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Bromodomain-containing protein 4 is produced by our E.coli expression system and the target gene encoding Glu49-Glu460 is expressed with a 10His, Flag tag at the N-terminus.
Accession #	O60885
Host	E.coli
Species	Human
Predicted Molecular Mass	49 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 50mM HEPES, 200mM NaCl, 1mM DTT, 10% Glycerol, pH 7.5.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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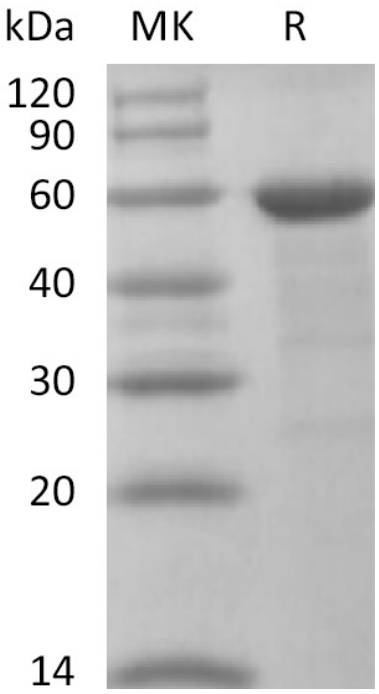

Alternative Names

HUNK1; bromodomain-containing protein 4; HUNKI; MCAP

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. Remains associated with acetylated chromatin throughout the entire cell cycle and provides epigenetic memory for postmitotic G1 gene transcription by preserving acetylated chromatin status and maintaining high-order chromatin structure. 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. Some specific inhibitors of BRD4 that prevent binding to acetylated histones by binding Asn-140 and Asn-433 are promising therapeutic molecules for the treatment of leukemias. BRD4 is a potential therapeutic target in many diseases including breast cancer, AML, multiple myeloma, colon cancer and others.

Note

For Research Use Only , Not for Diagnostic Use.