

Datasheet for ABIN7559503  
**BRD3 Protein (AA 1-726) (His tag)**



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## Overview

Quantity:	1 mg
Target:	BRD3
Protein Characteristics:	AA 1-726
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRD3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Brd3 Protein expressed in mammalian cells.
Sequence:	<p>MSTTAAAPTG IPAVPGPVNP PPPEVSNPSK PGRKTNQLQY MQNVVVKTLW KHQFAWPFYQ</p> <p>PVDAIKLNLP DYHKIIKNPM DMGTIKKRLE NNYWWSASEC MQDFNTMFTN CYIYNKPTDD</p> <p>IVLMAQALEK IFLQKVAQMP QEEVELLPPA PKGKGRKPAA GAQNAGSQQV AAVSSVSPAT</p> <p>PFQNIPTVS QTPVIAATPV PTITANVTSV PVPPPAAPPP PATPIVPVVP PTPPVVKKKG</p> <p>VKRKADTTTP TTSAITASRS ESPPLSEPK QAKVVARRES GGRPIKPPKK DLEDGEVPQH</p> <p>AGKKGKLSEH LRHCDSILRE MLSKKHAAYA WPFYKPVDAE ALELDYHDI IKHPMDLSTV</p> <p>KRKMDSREYP DAQGFAADIR LMFSNCYKYN PPDHEVVAMA RKLQDVFEMR FAKMPDEPME</p> <p>APALPAPTAP IVSKGAESSR SSEESSSDSG SSDSEERAT RLAELEQLK AVHEQLAALS</p> <p>QAPVVKPKKK KEKKEKEKKK KDKDKDEKE KHKAKSEEEK KAKAAPAAKQ AQQKKAPTKK</p> <p>ANSTTTASRQ LKKGGKQASA SYDSEEEEEG LPMSYDEKRQ LSLDINRLPG EKLGRVVHII</p> <p>QSREPSLRDS NPDEIEIDFE TLKPTTLREL ERYVKSCLQK KQRKPLSTSG KKQAAKSKEE</p> <p>LAQEKKKELE KRLQDVSGQL NSKKPTKKEK SGSAPSGGPS RLSSSSSSSES ASSSSSGSSS</p>

## Product Details

DSSDSE **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

**Target:** BRD3

**Alternative Name:** Brd3 ([BRD3 Products](#))

**Background:** Bromodomain-containing protein 3 (Bromodomain-containing FSH-like protein FSRG2),FUNCTION: Chromatin reader that recognizes and binds acetylated histones, thereby controlling gene expression and remodeling chromatin structures (PubMed:21536911). Recruits transcription factors and coactivators to target gene sites, and activates RNA polymerase II machinery for transcriptional elongation (By similarity). In vitro, binds acetylated lysine residues on the N-terminus of histone H2A, H2B, H3 and H4 (PubMed:21536911). Involved in endoderm differentiation via its association with long non-coding RNA (lncRNA) DIGIT: BRD3 undergoes liquid-liquid phase separation upon binding to lncRNA DIGIT, promoting

## Target Details

binding to histone H3 acetylated at 'Lys-18' (H3K18ac) to induce endoderm gene expression (PubMed:32895492). Also binds non-histones acetylated proteins, such as GATA1 and GATA2: regulates transcription by promoting the binding of the transcription factor GATA1 to its targets (PubMed:21536911, PubMed:21555453). {ECO:0000250|UniProtKB:Q15059, ECO:0000269|PubMed:21536911, ECO:0000269|PubMed:21555453, ECO:0000269|PubMed:32895492}.

Molecular Weight: 79.8 kDa

UniProt: [Q8K2F0](#)

Pathways: [Chromatin Binding](#)

## Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months