

# Recombinant human DTNBP1 protein

Catalog Number: ATGP0278

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-270aa

### UniProt No.

Q96EV8

### NCBI Accession No.

NP\_898862.1

### Alternative Names

Dystrobrevin-binding protein 1 isoform C, DTNBP1, DBND, HPS7, SDY, Dystrobrevin-binding protein 1 isoform C  
Dystrobrevin binding protein 1, Hermansky Pudlak syndrome 7 protein, Dysbindin

## PRODUCT SPECIFICATION

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### Molecular Weight

34.5 kDa (306aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 0.5mM DTT, 20% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Dysbindin is a ubiquitously expressed protein that binds to alpha- and beta-dystrobrevins, components of the dystrophin-associated protein complex (DPC) in both muscle and nonmuscle cells. Dysbindin has been strongly implicated in schizophrenia (SZ) susceptibility by a series of independent genetic association and gene expression studies. Among its known functions, dysbindin is part of a protein complex, termed the biogenesis of lysosome-related organelles complex 1 (BLOC-1), the molecular components of which might be involved in the

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regulation of vesicular trafficking and dendrite branching. Dysbindin effects for brain volume and cortical thickness appear driven by different neurobiological processes. Recombinant human Dysbindin protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

## Amino acid Sequence

<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MLSA HWEKKKTSLV ELQEQLQLP ALIADLESMT ANLTHLEASF EEVENLLHL EDLCGQCELE RCKHMQSQQ LENYKKNKRKE LETFKAELDA EHAQKVLEME HTQQMKLKER QKFFEEAFQQ DMEQYLSTGY LQIAERREPI GSMSSMEVNV DMLEQMDLMD ISDQEALDVF LNSGGEENTV LSPALGPESSTCQNEITLQV PNPSELRAKP PSSSSTCTDS ATRDISEGGE SPVVQSDEEE VQVDTALATS HTDREATPDG GEDSDS

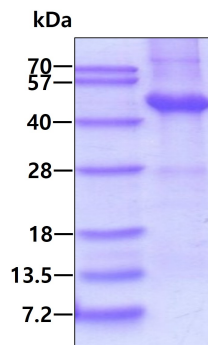
## General References

Li W., et al. (2003). Nat Genet. 35(1):84-9

Chen XW., et al. (2008). J Cell Biol. 181(5):791-801

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.