

# Recombinant human BSND protein

Catalog Number: ATGP2204

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

54-320aa

### UniProt No.

Q8WZ55

### NCBI Accession No.

NP\_476517

### Alternative Names

Barttin, BART, DFNB73

## PRODUCT SPECIFICATION

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### Molecular Weight

31.7 kDa (290aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% 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

BSND is an essential beta subunit for CLC chloride channels. These heteromeric channels localize to basolateral membranes of renal tubules and of potassium-secreting epithelia of the inner ear. Mutations in this BSND have been associated with Bartter syndrome with sensorineural deafness. Recombinant human BSND protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH MGS>CQCYPKI TFVPADSFQ GILSPKAMGL LENGAAEMK SPSPQPPYVR

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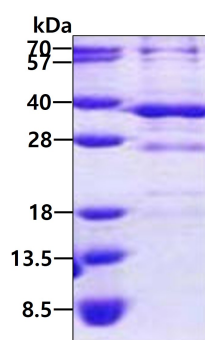
LWEEAAYDQS LPDFSHIQMK VMSYSEDHRS LLAPEMGQPK LGTSDGGEGG PGDVQAWMEA AVVIHKGSD  
SEGERRLTQS WPGPLACPQG PAMPLASFQDD LDMSDSEGSS PNASPHDREE ACSPQQEPQG CRCPLDRFQD  
FALIDAPTL  
DEPQEGQQWE IALPNNWQRY PRTKVEEKEA SDTGGEPEK EEEDLYYGLP DGAGDLLPDK ELGFEPDTQG

## General References

Park,C.W., et al. (2011) Clin. Nephrol. 75 (SuPPL 1), 69-74  
Iqbal,H., et al. (2011) J. Biomed. Biotechnol. 2011, 304612

## DATA

### SDS-PAGE



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