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Recombinant human BSND protein

Catalog Number: ATGP2204

PRODUCT INFORMATION

Expression system

E.coli

Domain

54-320aa

UniProt No.

08WZ55

NCBI Accession No.

NP 476517

Alternative Names

Barttin, BART, DFNB73

PRODUCT SPECIFICATION

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

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 SSGLVPRGSH MGS>COCYPKI TFVPADSDFO GILSPKAMGL LENGLAAEMK SPSPOPPYVR



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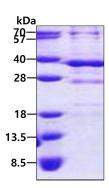
LWEEAAYDQS LPDFSHIQMK VMSYSEDHRS LLAPEMGQPK LGTSDGGEGG PGDVQAWMEA AVVIHKGSDE SEGERRLTQS WPGPLACPQG PAPLASFQDD LDMDSSEGSS PNASPHDREE ACSPQQEPQG CRCPLDRFQD FALIDAPTLE DEPQEGQQWE IALPNNWQRY PRTKVEEKEA SDTGGEEPEK EEEDLYYGLP DGAGDLLPDK ELGFEPDTQG

General References

Park, C.W., et al. (2011) Clin. Nephrol. 75 (SuPPL 1), 69-74 lqbal, 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.

