Recombinant Human Bartter syndrome, infantile, with sensorineural deafness (Barttin), His-tagged

Cat. No. BSND-250H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BSND, 54-320aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	54-320 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	31.7 kDa (290aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSCQCYPKI TFVPADSDFQ GILSPKAMGL LENGLAAEMK SPSPQPPYVR LWEEAAYDQS LPDFSHIQMK VMSYSEDHRS LLAPEMGQPK LGTSDGGEGG PGDVQAWMEA AVVIHKGSDE SEGERRLTQS WPGPLACPQG PAPLASFQDD LDMDSSEGSS PNASPHDREE ACSPQQEPQG

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	CRCPLDRFQD FALIDAPTLE DEPQEGQQWE IALPNNWQRY PRTKVEEKEA SDTGGEEPEK EEEDLYYGLP DGAGDLLPDK ELGFEPDTQG
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	BSND Bartter syndrome, infantile, with sensorineural deafness (Barttin) [Homo sapiens]
Official Symbol	BSND
Synonyms	BSND; Bartter syndrome, infantile, with sensorineural deafness (Barttin); deafness, autosomal recessive 73 , DFNB73; barttin; BART; deafness, autosomal recessive 73; DFNB73; MGC119283; MGC119284; MGC119285;
Gene ID	7809
mRNA Refseq	NM_057176
Protein Refseq	NP_476517
MIM	606412
UniProt ID	Q8WZ55

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Chromosome Location	1p32.3
Function	contributes_to chloride channel activity; chloride channel regulator activity;

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