

**BSND, 54-320aa, Human, His tag, E.coli**

**Cat.NO.: TP01370**

3th Edition

**Synonyms:**Barttin, BART, DFNB73

**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 Weight:**31.7 kDa (290aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSCQCYPKITFVPADSDFQGILSPKAMGLENGLAAEMKSPSPQPPYVRLWEE  
AAYDQSLPDFSHIQMKVMSYSEDHRSLLAPEMGQPKLGTSDGGEGGPGDVQAWMEAAVVIHKGSDSEGERRLT  
QSWPGPLACPQGPAPLASFQDDLMDMSSEGSSPNASPHDREEACSPQQEPQGCRCPLDRFQDFALIDAPTLEDE  
PQEGQQWEIALPNNWQRYPRTKVEEKEASDTGGEEPEKEEEDLYYGLPDGAGDLLPKELGFEPDTQG

**Purity:**> 95% by HPLC

**Concentration:**0.25mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.