

**BEST1, 292-585aa Human, His tag, E.coli**

**Cat.NO.: TP01324**

3th Edition

**Synonyms:** Bestrophin-1 isoform 1, ARB, BEST, BMD, RP50, TU15B, VMD2

**Description:** BEST1 is a member of the bestrophin gene family. This small gene family is characterized by proteins with a highly conserved N-terminus with four to six transmembrane domains. Bestrophins may form chloride ion channels or may regulate voltage-gated L-type calcium-ion channels. Bestrophins are generally believed to form calcium-activated chloride-ion channels in epithelial cells but they have also been shown to be highly permeable to bicarbonate ion transport in retinal tissue. Mutations in this gene are responsible for juvenile-onset vitelliform macular dystrophy (VMD2), also known as Best macular dystrophy, in addition to adult-onset vitelliform macular dystrophy (AVMD) and other retinopathies. Recombinant human BEST1 protein, fused to His-tag at N-terminus, was expressed in E.coli

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

**Molecular Weight:** 36 kDa (317aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSEQLINPFGEDDDDFETNWIVDRNLQVSLLAVDEM HQDLPRMEPDMYWNKP  
EPQPPYTAASAQFRRASFMGSTFNISLNKEEMEFQPNQEDEEDAHAGIIGRFLGLQSHDHPPRANSRTKLLWPK  
RESLLHEGLPKNHKAAKQNVRGQEDNKAWKLKAVDAFKSAPLYQRPGYYSAPQTPLSPTPMFFPLEPSAPSKLHS  
VTGIDTKDKSLKTVSSGAKKSFELLSESDGALMEHPEVSQVRRKTVFENLTDMPEIPENHLKEPLEQSPTNIHTTLKD  
HMDPYWALENRDEAHS

**Purity:** > 95% by HPLC

**Concentration:** 1 mg/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.