

# Product information



## BEST1, 292-585aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2600

**Full name:** Bestrophin-1 isoform 1

**NCBI Accession No.:** NP\_004174

**Synonym:** 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*.

<p><b>Form:</b> Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol</p> <p><b>Molecular Weight:</b> 36 kDa (317aa)</p> <p><b>Purity:</b> &gt; 90% by SDS - PAGE</p> <p><b>Concentration:</b> 1 mg/ml (determined by Bradford assay)</p>	<p>(kDa) 70 57 40 28 18 13.5 8.5 15% SDS-PAGE (3ug)</p>
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### Sequences of amino acids:

MGSSHHHHHH SSSLVPRGSH MGSEQLINPF GEDDDDFETN WIVDRNLQVS LLAVDEMHDQ LPRMEPDMYW NKPEPQPPYT AASAQFRRAS  
FMGSTFNISL NKEEMEFQPN QEDEEDAHAG IIGRFLGLQS HDHPPRANS RTKLLWPKRE SLLHEGLPKN HKAAKQNVRG QEDNKAWLKL  
AVDAFKSAPL YQRPGYYSAP QTPLSPTPMF FPLEPSAPSK LHSVTGIDTK DKSLKTVSSG AKKSFELLSE SDGALMEHPE VSQVRRKTV  
FNLTDMPEIP ENHLKEPLEQ SPTNIHTTLK DHMDPYWALE NRDEAHS

### General references:

Sodi A, Passerini I, *et al.* (2012). *Mol Vis*.18:2736-48.

Bitner H, Schatz P, *et al.* (2012). *Am J Ophthalmol*. 154(2):403-412.

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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