

Recombinant Human bestrophin 1, His-tagged

Cat. No. BEST1-503H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BEST1, 292-585aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	292-585 a.a.
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 Mass	36 kDa (317aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSEQLINPF GEDDDDFETN WIVDRNLQVS LLAVDEMHQD LPRMEPDMYW NKPEPQPPYT AASAQFRRAS FMGSTFNISL

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NKEEMEFQPN QEDEEDAHAG IIGRFLGLQS HDHHPPRANS RTKLLWPKRE
 SLLHEGLPKN HKAAKQNVRG QEDNKAWKLK AVDAFKSAPL YQRPGYYSAP
 QTPLSPTPMF FPLEPSAPSK LHSVGTIDTK DKSLKTVSSG AKKSFELLSE
 SDGALMEHPE VSQVRRKTVE FNLTDMPEIP ENHLKEPLEQ SPTNIHTTLK
 DHMDPYWALE NRDEAHS

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 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [BEST1 bestrophin 1 \[Homo sapiens \]](#)

Official Symbol BEST1

Synonyms BEST1; bestrophin 1; vitelliform macular dystrophy 2 , VMD2; bestrophin-1; BEST; Best disease; BMD; vitelliform macular dystrophy protein 2; ARB; RP50; VMD2; TU15B;

Gene ID [7439](#)

mRNA Refseq [NM_001139443](#)

Protein Refseq [NP_001132915](#)

MIM [607854](#)

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UniProt ID	O76090
Chromosome Location	11q12
Function	chloride channel activity; contributes_to chloride channel activity; ion channel activity;

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