

Recombinant human BEST1 protein

Catalog Number: ATGP2600

PRODUCT INFORMATION

Expression system

E.coli

Domain

292-585aa

UniProt No.

O76090

NCBI Accession No.

NP_004174.1

Alternative Names

Bestrophin-1 isoform 1, ARB, BEST, BMD, RP50, Tu15B, VMD2

PRODUCT SPECIFICATION

Molecular Weight

36 kDa (317aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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dystrophy (AVMD) and other retinopathies. Recombinant human BEST1 protein, fused to His-tag at N-terminus, was expressed in E. coli

Amino acid Sequence

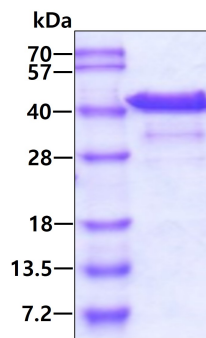
<MGSSHHHHHH SSGLVPRGSH MGS>EQLINPF GEDDDDFETN WIVDRNLQVS LLAVDEMHQD LPRMEPDMYW
NKPEPQPPYT AASAQFRRAS FMGSTFNISL NKEEMEFQPN QEDEEDAHAG IIGRFLGLQS HDHHPPRANS RTKLLWPKRE
SLLHEGLPKN HKAQKQNVRG QEDNKAWKLL AVDAFKSAPL YQRPGYYSAP QTPLSPTPMF FPLEPSAPSK LHSVGTGIDTK
DKSLKTVSSG AKKSFELLSE SDGALMEHPE VSQVRRKTVE FNLTDMPEIP 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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.