

Recombinant Full Length Human BEST1 Protein, C-Flag-tagged

Cat. No. BEST1-1857HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human BEST1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes 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. Alternative splicing results in multiple variants encoding distinct isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	67.5 kDa
AA Sequence	MTITYTSQVANARLGSFSRLLLCWRGSIYKLLYGEFLIFLLCYIIRFIYRLALTEEQQL MFEKLTLYCD SYIQLIPISFVLGFYVTLVVTRWWNQYENLPWPDRLMSLVSGFVEGK

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DEQGRLLRRTLIRYANLGNVLIL RSVSTAVYKRFPSSAQHLVQAGFMTPAEHKQLEKL
SLPHNMFVWPVWVWFANLSMKAWLGGRIRDPILLQSL LNMNTLRTQCGHLYAYD
WISIPLVYTQVVTAVVYSFFLTCLVGRQFLNPAKAYPGHELDLVVPVFTFLQ FFFYVG
WLKVAEQLINPFGEDDDDFETNWIVDRNLQVSL LAVDEMHQDLPRMEPDMYWNKP
EPQPPYTAA SAQFRRASFMSGTFNISLNKEEMEFQPNQEDEEDAHAGIIGRFLGLQ
SHDHHPPRANSRTKLLWPKRESL LHEGLPKNHKAAKQNVRGQEDNKAWKLKAVD
AFKSAPLYQRPGYYSAPQTPLSPTPMFFPLEPSAPSKLH SVTGIDTKDKSLKTVSSG
AKKSFELLSESDGALMEHPEVSQVRRKTVEFNLTDMPEIPENHLKEPLEQSP TNIHT
TLKDHMDPYWALENRDEAHS TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Ion Channels: Other, Transmembrane
Full Length	Full L.

GENE INFORMATION

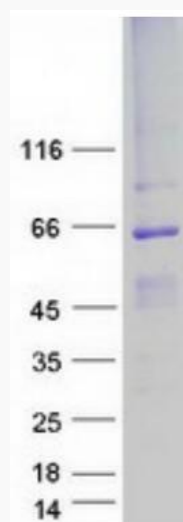
Gene Name	BEST1 bestrophin 1 [Homo sapiens (human)]
Official Symbol	BEST1

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Synonyms	ARB; BMD; BEST; RP50; VMD2; TU15B; Best1V1Delta2
Gene ID	7439
mRNA Refseq	NM_004183.4
Protein Refseq	NP_004174.1
MIM	607854
UniProt ID	O76090



Coomassie blue staining of purified BEST1 protein.