

Recombinant Human BEST3, His-tagged

Cat. No. BEST3-10209H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BEST3 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-186a.a.
Description	BEST3 belongs to the bestrophin family of anion channels, which includes BEST1 (MIM 607854), the gene mutant in vitelliform macular dystrophy (VMD; MIM 153700), and 2 other BEST1-like genes, BEST2 (MIM 607335) and BEST4 (MIM 607336). Bestrophins are transmembrane (TM) proteins that share a homology region containing a high content of aromatic residues, including an invariant arg-phe-pro (RFP) motif. The bestrophin genes share a conserved gene structure, with almost identical sizes of the 8 RFP-TM domain-encoding exons and highly conserved exon-intron boundaries. Each of the 4 bestrophin genes has a unique 3-prime end of variable length (Stohr et al., 2002 [PubMed 12032738]; Tsunenari et al., 2003 [PubMed 12907679]).
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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GENE INFORMATION

Gene Name	BEST3 bestrophin 3 [Homo sapiens]
Official Symbol	BEST3
Synonyms	BEST3; bestrophin 3; vitelliform macular dystrophy 2 like 3 , VMD2L3; bestrophin-3; MGC13168; MGC40411; vitelliform macular dystrophy 2-like 3; vitelliform macular dystrophy 2-like protein 3; VMD2L3;
Gene ID	144453
mRNA Refseq	NM_032735
Protein Refseq	NP_116124
MIM	607337
UniProt ID	Q8N1M1
Chromosome Location	12q14.2-q15
Function	chloride channel activity; ion channel activity; molecular_function;

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