
Product Data Sheet

Product Name: BEST1 Human
 Cat. No.: GP22871
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Bestrophin-1; TU15B; Vitelliform macular dystrophy protein 2; BEST1; VMD2; ARB; BEST; BMD; RP50; TU15B; Bestrophin-1 isoform 1; Bestrophin 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEQLINPF GEDDDDFETN WIVDRNLQVS LLAVDEM HQD LPRMEPD MYW NKPEPQPPYT AASAQFRRAS FMGSTFNISL NKEEMEFQPN QEDEEDAHAG IIGRFLGLQS HDHHP PRANS RTKLLWPKRE SLLHEGLPKN HKA AKQNV RG QEDNKAWK LK AVDAFKSAPL YQRP GYYSAP QTPLSPTPMF FPLEPSAPSK LHSV TGIDTK DKSLKTVSSG AKKSFELLSE SDGALMEHPE VSQVRRKTVE FNL TDMPEIP ENHLKEPLEQ SPTNIHTTLK DHMDPYWALE NRDEAHS.		
Formulation	The BEST1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Bestrophin 1 (BEST1) is a part of the bestrophin gene family and is also forms calcium-activated chloride-ion channels in epithelial. This small gene family is characterized by proteins with a highly conserved N-terminus with 4-6 transmembrane domains. BEST1 is extremely permeable to bicarbonate.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

BEST1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 317 amino acids (292-585) and having a molecular mass of 36 kDa. BEST1 is fused to a 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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