

Product datasheet for **AR51420PU-S**

Bestrophin-1 (292-585, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Bestrophin-1 (292-585, His-tag) human protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSEQLINPF GEDDDDFETN WIVDRNLQVS LLAVDEM HQD LPRMEPDMYW NKPEPQPPYT AASAQFRRAS FMGSTFNISL NKEEMEFQPN QEDEEDA HAG IIGRFLGLQS HDHHP PRANS RTKLLWPKRE SLLHEGLPKN HKA AKQNV RG QEDNKAWK LK AVDAFKSAPL YQ RPGYYSAP QTPLSPTPMF FPLEPSAPSK LHSV TGIDTK DKSLKTVSSG AKKSFELLSE SDGALMEHPE VSQVRRKTVE FNLTDMPEIP ENHLKEPLEQ SPTNIHTTLK DHMDPYWALE NRDEAHS
Tag:	His-tag
Predicted MW:	36 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Preparation:	Liquid purified protein
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001132915
Locus ID:	7439
UniProt ID:	O76090
Cytogenetics:	11q12.3
Synonyms:	ARB; BEST; Best1V1Delta2; BMD; RP50; TU15B; VMD2



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Summary:

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. [provided by RefSeq, Nov 2008]

Protein Families:

Druggable Genome, Ion Channels: Other, Transmembrane

Product images: