

Recombinant Human BFSP1, His-tagged

Cat. No. BFSP1-10217H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human BFSP1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

Species Human

Source E.coli

ProteinLength C-term-350a.a.

Description More than 99% of the vertebrate ocular lens is comprised of terminally differentiated lens fiber cells. Two lens-specific intermediate filament-like proteins, CP49 (also known as phakinin) and the protein product of this gene, filensin, are expressed only after fiber cell differentiation has begun. Both proteins are found in a structurally unique cytoskeletal element that is referred to as the beaded filament (BF). Mutations in this gene are the cause of autosomal recessive cortical juvenile-onset cataract. Multiple transcript variants encoding different isoforms have been found for this gene.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	BFSP1 beaded filament structural protein 1, filensin [Homo sapiens]
Official Symbol	BFSP1
Synonyms	BFSP1; beaded filament structural protein 1, filensin; filensin; CP94; CP115; LIFL H; cytoskeletal protein, 115 KD; lens intermediate filament-like heavy; lens fiber cell beaded-filament structural protein CP 115; LIFL-H;
Gene ID	631
mRNA Refseq	NM_001161705
Protein Refseq	NP_001155177
MIM	603307
UniProt ID	Q12934
Chromosome Location	20p12.1
Function	structural constituent of cytoskeleton; structural constituent of eye lens;

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