

## SPECIFICATION SHEET

**Product Name: Fag e 2**
**Catalog # FE02-A921H**

**Product Description:** Recombinant *Fagopyrum esculentum* allergen, Fag e 2, was expressed in *E. coli* and purified by affinity chromatography using a His tag.

**Storage and Stability:** Store at -20°C. To avoid repeated handling and multiple freeze/thaw cycles, aliquot product into smaller quantities.

### Data for a Sample Lot:

#### Alternate Names

: 2S seed storage albumin protein, 16 kDa buckwheat protein, BWp16, 2S albumin, 2S seed storage protein, Buckwheat 16 kDa major allergen, Fag e 2.0101

#### Source

: *Fagopyrum esculentum* (Common Buckwheat)

#### Accession Numbers

: GenBank: [D0304682.1](#)

UniProt: [Q2PS07](#)

#### Host

: *E. coli*

#### Formulation

: Protein stored in 1x PBS, 5% sucrose solution

#### Molecular weight

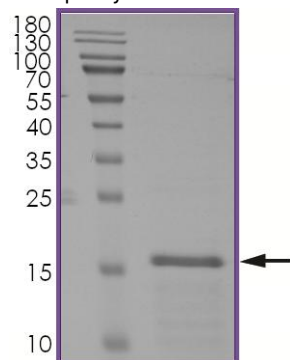
: Calculated: 18.8 kDa

Observed: ~16 kDa

#### Purity

: The purity was determined to be > 90% by densitometry

#### Gel Image



### References

1. Tanaka K, Matsumoto K, Akasawa A, Nakajima T, Nagasu T, Ikura Y, Saito H. Pepsin-resistant 16-kD buckwheat protein is associated with immediate hypersensitivity reaction in patients with buckwheat allergy. *Int Arch Allergy Immunol*. 2002 Sep;129(1):49-56. doi: 10.1159/000065173. PMID: 12372998.
2. Koyano S, Takagi K, Teshima R, Sawada J. Molecular cloning of cDNA, recombinant protein expression and characterization of a buckwheat 16-kDa major allergen. *Int Arch Allergy Immunol*. 2006;140(1):73-81. doi: 10.1159/000092038. Epub 2006 Mar 16. PMID: 16549935.