

## SPECIFICATION SHEET

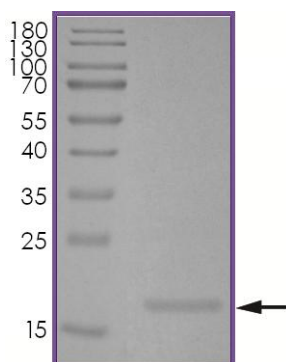
**Product Name: Bet v 1**
**Catalog # BV01-A921H**

**Product Description:** Recombinant *Betula pendula* allergen Bet v 1 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:

|                          |                                                                        |
|--------------------------|------------------------------------------------------------------------|
| <b>Alternate Names</b>   | : Thioredoxin Asp f 28, Asp f 28.0101, Trx, Allergen Asp f 28,         |
| <b>Source</b>            | : <i>Betula pendula</i> (European white birch)                         |
| <b>Accession Numbers</b> | : Genbank: <a href="#">X15877.1</a><br>UniProt: <a href="#">P15494</a> |
| <b>Host</b>              | : <i>E. coli</i>                                                       |
| <b>Formulation</b>       | : Recombinant protein stored in 1x PBS, 5% sucrose solution.           |
| <b>Molecular weight</b>  | : Calculated: 18.7 kDa<br>Observed: ~17 kDa                            |
| <b>Purity</b>            | : The purity was determined to be >90% by densitometry                 |
| <b>Gel Image</b>         |                                                                        |



### References

- Breiteneder H, Pettenburger K, Bito A, Valenta R, Kraft D, Rumpold H, Scheiner O, Breitenbach M. The gene coding for the major birch pollen allergen Betv1, is highly homologous to a pea disease resistance response gene. EMBO J. 1989 Jul;8(7):1935-8. doi: 10.1002/j.1460-2075.1989.tb03597.x. PMID: 2571499; PMCID: PMC401053.
- Swoboda I, Jilek A, Ferreira F, Engel E, Hoffmann-Sommergruber K, Scheiner O, Kraft D, Breiteneder H, Pittenauer E, Schmid E, et al. Isoforms of Bet v 1, the major birch pollen allergen, analyzed by liquid chromatography, mass spectrometry, and cDNA cloning. J Biol Chem. 1995 Feb 10;270(6):2607-13. doi: 10.1074/jbc.270.6.2607. PMID: 7852325.