

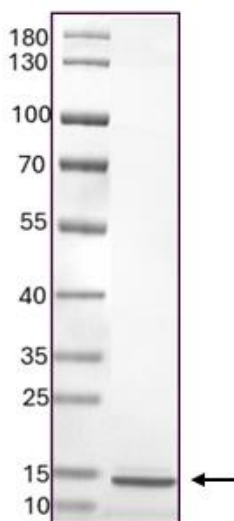
## SPECIFICATION SHEET

**Product Name: Mal d 4**
**Catalog # MD04-A32H**

**Product Description:** Recombinant *Malus domestica* allergen Mal d 4 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.

**Alternative Names** : Apple Profilin  
**Source** : *Malus domestica* (apple)(*Pyrus malus*)  
**Accession Numbers** : GenBank: [AF129428](#)  
 UniProt: [Q9XF42](#)  
**Host** : *E. coli*  
**Formulation** : Protein stored in 1x PBS  
**Molecular Weight** : Calculated: 15.1 kDa  
 Observed: ~14.6 kDa  
**Purity** : The purity was determined to be ≥ 90% by densitometry  
**Gel Image**



### References

1. Van Ree R, Fet al. Pollen-related allergy to peach and apple: an important role for profilin. *Journal of Allergy and Clinical Immunology*. 1995.95(3):726-734.
2. Ma Y, et al. Characterization of recombinant Mal d 4 and its application for component-resolved diagnosis of apple allergy. *Clinical & Experimental Allergy*. 2006. 36(8):1087-1096.