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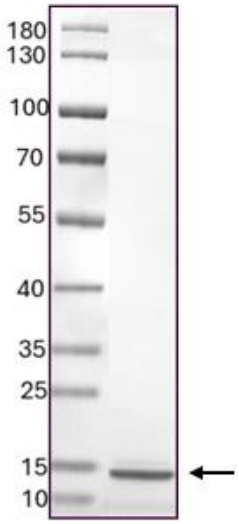
# SPECIFICATION SHEET

## 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: Q9XF42
UniProt: AF129428
**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.