^{168}Tm

^{168}Tm was identified by Wilkinson and Hicks in the 1949 paper "Radioactive isotopes of the rare earths. I. Experimental techniques and thulium isotopes" (1949Wi03). A holmium target was bombarded with 38 MeV α-particles from the 60-in. Berkeley cyclotron. Electrons and γ-rays were measured following chemical separation. "The latter is reported to have no γ-radiation, and the x- and γ-radiation observed in the thulium fraction decays with a half-life of 85 days. The allocation to mass 168 on the basis of reaction yields is thus confirmed." Previously a 100 d activity was assigned to either ^{167}Tm or ^{168}Tm (1948Wi02).

Adapted from reference (2013Fr10)

1948Wi02 G. Wilkinson and H. G. Hicks, Phys. Rev. **74**, 1733 (1948).
1949Wi03 G. Wilkinson and H. G. Hicks, Phys. Rev. **75**, 1370 (1949).
2013Fr10 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 520 (2013).

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