

^{165}Tm

The discovery of ^{165}Tm was reported in “Erbium¹⁶³ and Thulium¹⁶⁵” by Handley and Olson in 1953 ([1953Ha43](#)). Erbium oxide was bombarded with 24 MeV protons from the ORNL 86-in. cyclotron. Decay curves and γ -ray spectra were measured with a scintillation spectrometer following chemical separation. “Therefore, the 24.5-hour activity is assigned to Tm^{165} and it is the parent of the 10.5-hour Er^{165} .” Less than five months later Michel and Templeton independently reported a half-life of 29 hr ([1954Mi16](#)).

Adapted from reference ([2013Fr10](#))

- [1953Ha43](#) T. H. Handley and E. L. Olson, Phys. Rev. **92**, 1260 (1953).
[1954Mi16](#) M. C. Michel and D. H. Templeton, Phys. Rev. **93**, 1422 (1954).
[2013Fr10](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 520 (2013).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”