

⁸³Rb

“Radioactive isotopes of rubidium” was published by Karraker and Templeton in 1950 describing the discovery of ⁸³Rb ([1950Ka62](#)). Helium ions accelerated to 18-100 MeV by the Berkeley 60-inch and 184-inch cyclotrons irradiated bromine targets. ⁸³Rb was separated with a mass spectrograph and activities were measured with a β -ray spectrometer and end-window Geiger-Müller counters following chemical separation. “The half-life of Rb⁸³ was determined by following the decay of a sample of rubidium activity produced by 60-Mev helium ion bombardment of bromine, very similar to the sample which gave a radioactive transfer at masses 83 and 84. Resolution of the decay curve showed a 107-day activity, assigned to mass 83, as well as the 34-day Rb⁸⁴.”

Adapted from reference ([2012Pa21](#))

- [1950Ka62](#) D. G. Karraker and D. H. Templeton, Phys. Rev. **80**, 646 (1950).
[2012Pa21](#) A. M. Parker and M. Thoennessen, At. Data Nucl. Data Tables **98**, 812 (2012).

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)”