

## <sup>72</sup>Se

Hopkins and Cunningham first observed <sup>72</sup>Se in 1948, in the paper “Nuclear Reactions of Arsenic with 190-Mev Deuterons” ([1948Ho04](#)). 190 MeV deuterons from the Berkeley 184-inch cyclotron bombarded a pure <sup>75</sup>As target and <sup>72</sup>Se was identified by measuring the activity with argon-filled Geiger-Müller counting tubes following chemical separation. “Several new radioactivities have been observed. Mass assignments have been made by demonstration of the following decay chains.  $\text{Se}^{72} \rightarrow \text{As}^{72} \rightarrow \text{Ge}^{72}$ .”

Adapted from reference ([2012Gr02](#))

[1948Ho04](#) H. H. Hopkins Jr. and B. B. Cunningham, Phys. Rev. **73**, 1406 (1948).  
[2012Gr02](#) J. L. Gross, J. Claes, J. Kathawa, and M. Thoennessen, At. Data Nucl. Data Tables **98**, 75 (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)”