



Supplementary Materials: Nimotuzumab Site-Specifically Labeled with ⁸⁹Zr and ²²⁵Ac Using SpyTag/SpyCatcher for PET Imaging and Alpha Particle Radioimmunotherapy of Epidermal Growth Factor Receptor Positive Cancers

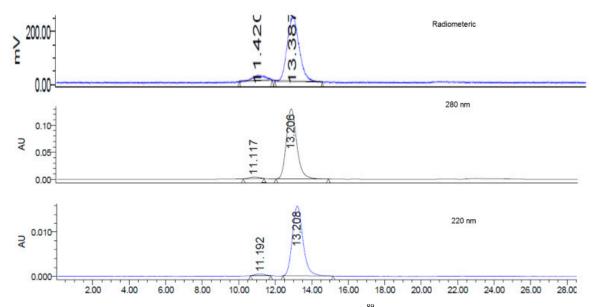


Figure S1. Representative size exclusion (SEC) HPLC profile of 89 Zr-nimotuzumab-SpyTag- Δ N-SpyCatcher. UV channels at 220 and 280 nm show "cold" antibody and radiometric channel shows the radiolabeled antibody with a purity > 95%.

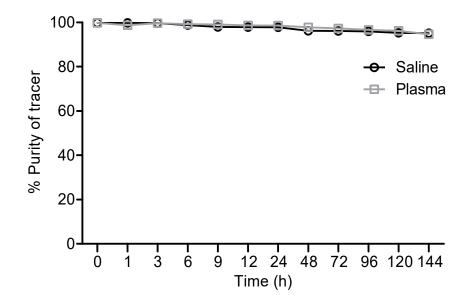


Figure S2. Stability of ⁸⁹Zr-nimotuzumab-SpyTag-ΔN-SpyCatcher in saline and human plasma at 37 °C for different time points.

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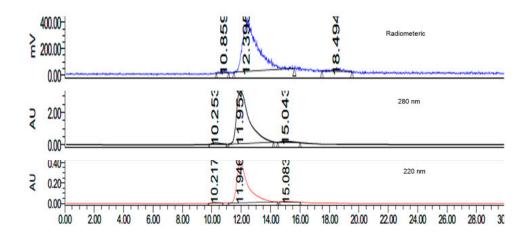


Figure S3. Representative size exclusion (SEC) HPLC profile of 225 Ac-nimotuzumab-SpyTag- Δ N-SpyCatcher. UV channels at 220 and 280 nm show "cold" antibody and radiometric channel shows the radiolabeled antibody with a purity > 95%.

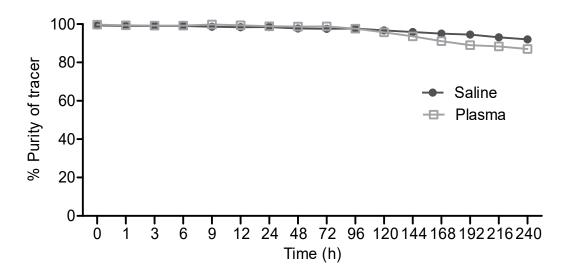


Figure S4. Stability of 225 Ac-nimotuzumab-SpyTag- Δ N-SpyCatcher in saline and human plasma at 37 $^{\circ}$ C at different times post incubation.

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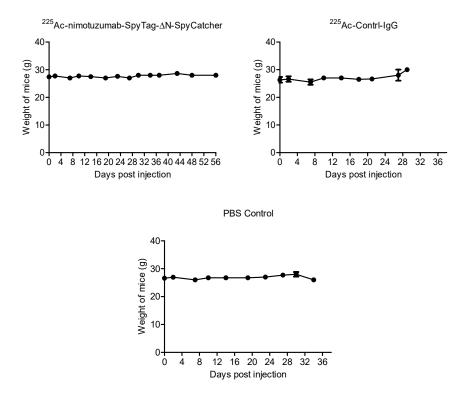


Figure S5. Average body weight of mice during treatment for the different groups.



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