

Supplementary Materials: The Use of a Non-Conventional Long-Lived Gallium Radioisotope ^{66}Ga Improves Imaging Contrast of EGFR Expression in Malignant Tumours using DFO-ZEGFR:2377 Affibody Molecule

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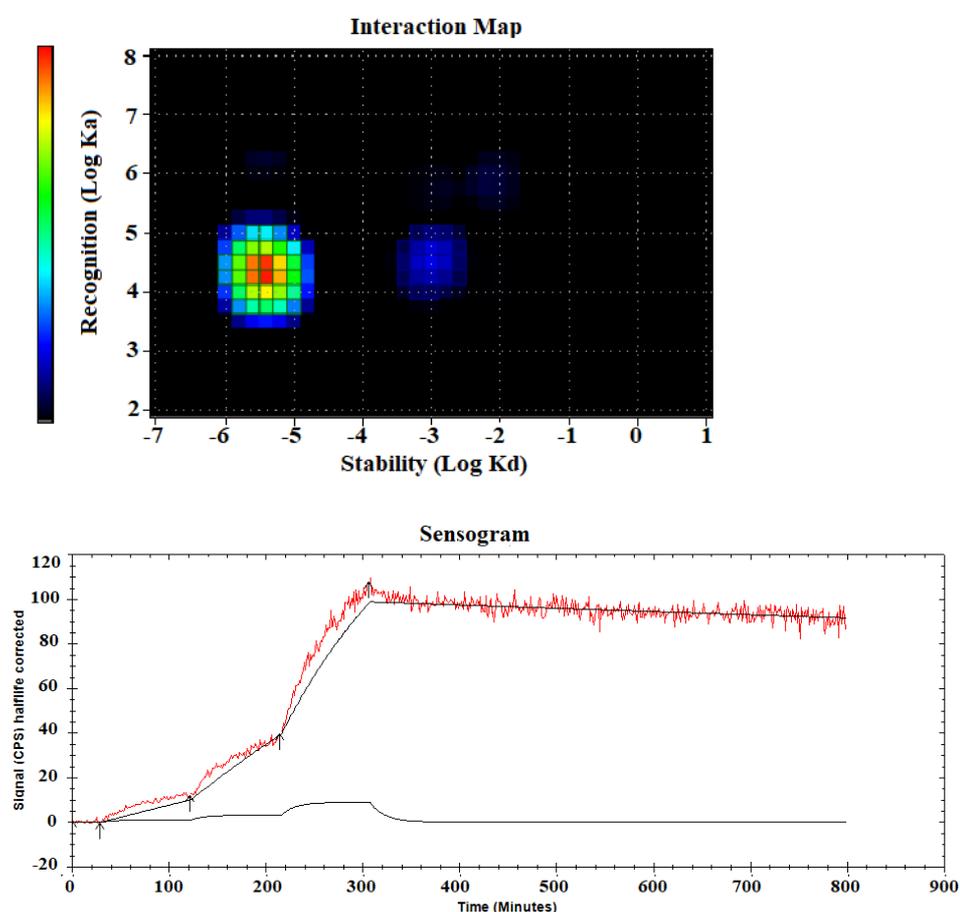


Figure S1. LigandTracer sensorgram and InteractionMap of $[^{66}\text{Ga}]\text{Ga}$ -DFO-ZEGFR:2377 binding to EGFR-expressing A431 cells. Input data were obtained from LigandTracer measurement of cell-bound activity during association of labelled conjugate to- and dissociation from A431 cells. Binding was measured at three different concentrations: 0.33, 1, and 3 nM. Measurement was performed in duplicates.

Table S1. Long-lived positron-emitting radiometals. Data are taken from [51]. Emitted gamma-quanta with abundance over 5% are shown.

Nuclide	Half-life, hour	Mode of decay	Principal photon emissions, keV (abundance in %)
⁵⁵ Co	17.5	β^+ 76 % EC 24 %	511(152%) , 477(20.2 %), 931(75 %), 1317(7.1%), 1408(16.9%)
⁶⁴ Cu	12.7	β^+ 18 β^- 37% EC 24 %	511(36%) , 1346(0.5%),
⁶⁶ Ga	9.49	β^+ 56.5 %, EC 43.5%	511 (113%) , 834 (5.9%), 1039 (37%), 2190 (5.3%), 2751 (22.7%)
⁸⁶ Y	14.7	β^+ 33 % EC 67 %	511(66%) , 443(16.9%), 628(32.6%), 646(9.2%), 703(15.4%), 778(22.4%), 1077(82.5%), 1153(30.5%), 1854(17.2%), 1920(20.8%)
⁸⁹ Zr	78.4	β^+ 23% EC 77%	511(46%) , 909(100%)