Supporting Information

Lanthanide Complexes with a New Tetraazamacrocycle Containing Methylcarboxylate and Thiolate Pendant Arms

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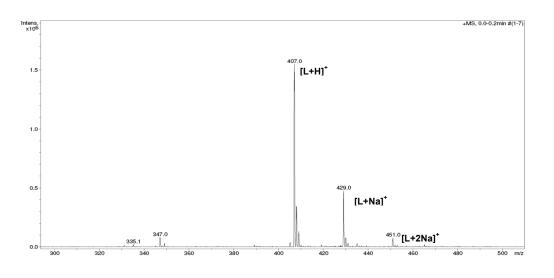


Figure S1: MS-spectrum of H₄DO3ASH (positive mode).

The labeling yield decreases to 85% - 90% when the reactions are carried out at pH < 6 and pH > 7, being these yields only achieved after at least 4h at room temperature. Figure S2 shows the pH dependence in the labelling of H₄do3aSH with ¹⁵³Sm at pH 5, 6 and 9 (30 min reaction, room temperature) and figure S3 represents the kinetics of formation of ¹⁵³Sm-do3aSH at pH 5 and at pH 9, both at room temperature.

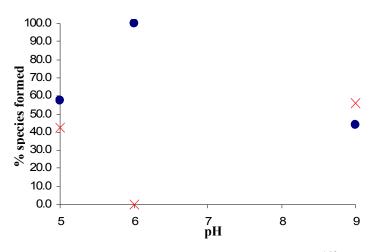


Figure S2: pH dependence in the labeling of do3aSH with ¹⁵³Sm (30 min., room temperature): X ¹⁵³Sm(NO₃)₃, ● ¹⁵³Sm-do3aSH.

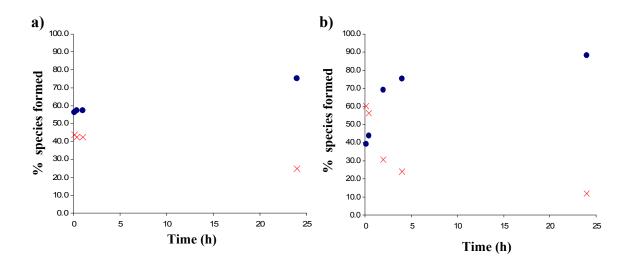


Figure S3: Kinetics of the labelling reaction at: (a) pH 5 and (b) pH 9 (room temperature): X ¹⁵³Sm(NO₃)₃, ● ¹⁵³Sm-do3aSH.

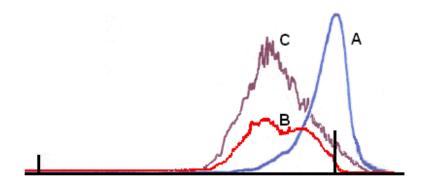


Figure S4: ¹⁶⁶Ho-DO3ASH chromatographic profile: **A:** after labelling, **B:** in human serum, after 2 days, **C:** in human serum, after 3 days.