We suggest a structure and synthesis of a new prototypal metabolic conjugate based on bifunctional chelator and heterobifunctional linker and particulary application of a conjugation component for the purpose of reduction of radioactivity in nontarget tissues. We provides summary and evaluation of different methods of synthesis of maleimido active esters. This work also suggests a modification of synthesis of derivative of Bn-DTPA chelator, which replace a hazardous reduction step carried by BH_3.THF complex by employment safer reduction agents ($NaBH_4$ and $LiBH_4$ with $BF_3.Et_2O$) or introduce alternative pathway avoiding reduction step completely. This pathway contains only easy reactions and final yield is comparable to old synthesis.