

Supplementary material

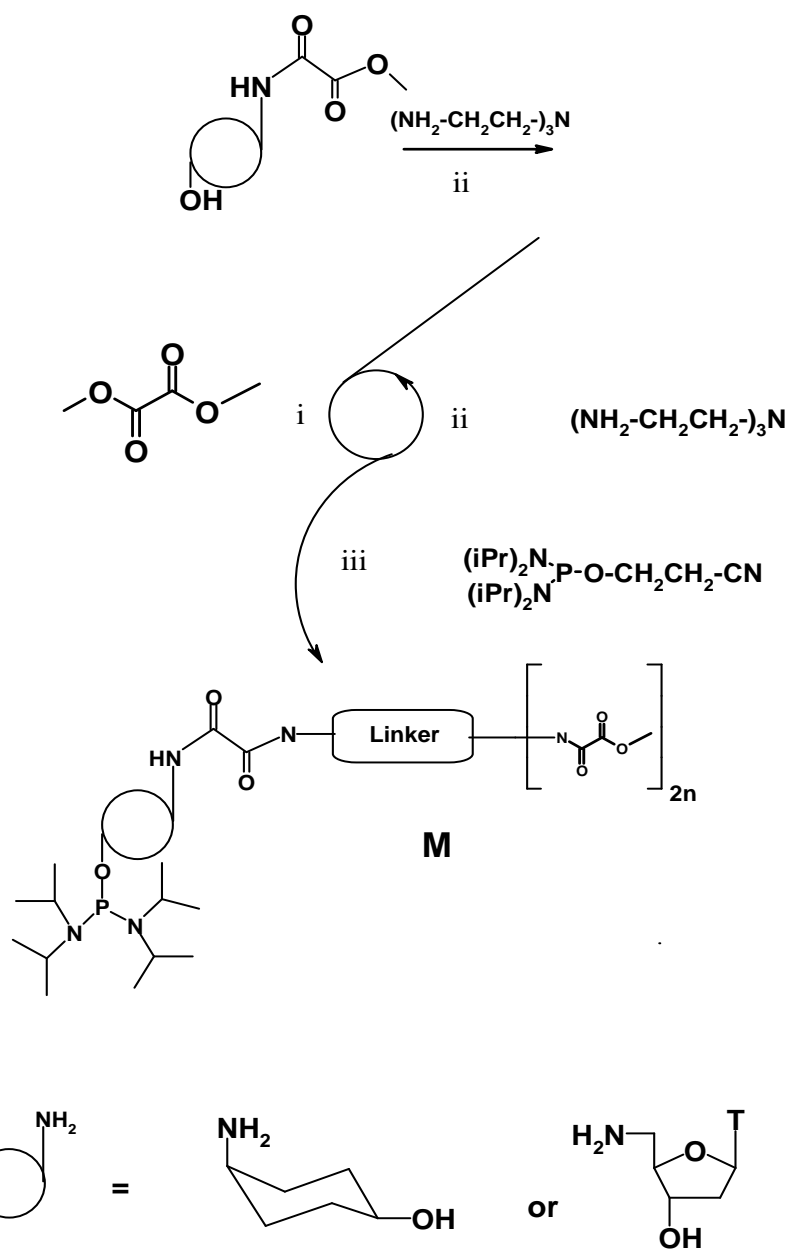


Figure 1. Synthesis of terminal modifiers bearing 1-8 methoxyoxaloamido (MOX) precursor groups along with a phosphoramidite moiety: (i) treatment with dimethyl oxalate; (ii) treatment with tris(2-aminoethyl)amine; (iii) phosphitylation.

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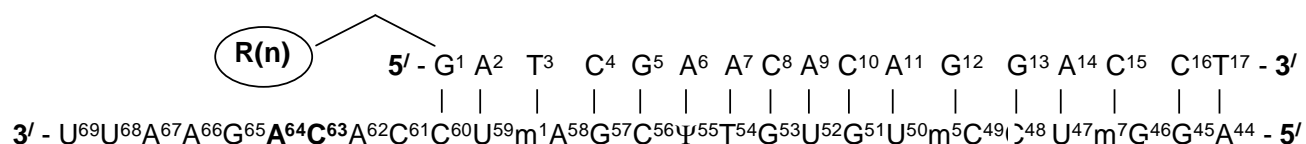


Figure 2. A shortened model used for the DNA:RNA hybrid in the molecular modeling calculations, comprising a target RNA sequence (corresponding to the ^{5'}A₄₄-U₆₉ fragment of T-arm of the tRNA^{Phe}) and a 17-mer oligonucleotide conjugate complementary to the ^{5'}A₄₄-U₆₀ RNA region. **R(n)** is one of cleaving groups shown in Fig. 1, A.