Supplementary Material

Overview of Free Energy Surfaces and Transition State Geometries for the Hydrolysis of a Series of dGTP Analogues Modified at the β,γ-Bridging Position



Figure S1: Structure of dGTP and β,γ-substituted analogues. X=CF₂, CFCl, CCl₂, O, CHF, CBr₂, CHCl,

CHBr and CH₂^{12,16}.



Figure S2: Free energy surface and transition state geometry for the dGTP analog where X=O. All distances are in Å, and \neq denotes a transition state.



Figure S3: Free energy surface and transition state geometry for the dGTP analog where X=CHF. All distances are in Å, and ≠ denotes a transition state.



Figure S4: Free energy surface and transition state geometry for the dGTP analog where X=CHCl. All distances are in Å, and ≠ denotes a transition state.



Figure S5: Free energy surface and transition state geometry for the dGTP analog where X=CHBr. All distances are in Å, and ≠ denotes a transition state.



Figure S6: Free energy surface and transition state geometry for the dGTP analog where X=CH₂. All distances are in Å, and ≠ denotes a transition state.



Figure S7: Free energy surface and transition state geometry for the dGTP analog where X=CF₂. All distances are in Å, and \neq denotes a transition state.



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Figure S9: Free energy surface and transition state geometry for the dGTP analog where X=CCl₂. All distances are in Å, and ≠ denotes a transition state.



Figure S10: Free energy surface and transition state geometry for the dGTP analog where X=CBr₂. All distances are in Å, and ≠ denotes a transition state.