**S1** **Table.** Physiochemical properties of indoly-2’-deoxynucleotide analogs used in this study.

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| --- | --- | --- | --- |
| **Nucleotide** | **Full name** | **Surface Area (Å2)** | **cLog*P*** |
| dATP | 2′-deoxyadenosine 5′-triphosphate | 144 | -1.45 |
| 4-NITP | 4-nitroindolyl-2'-deoxynucleoside 5'-triphosphate | 172 | -0.07 |
| 6-NITP | 6-nitroindolyl-2'-deoxynucleoside 5'-triphosphate | 175 | -0.07 |
| 5-FITP | 5-fluoroindolyl-2'-deoxyriboside 5'-triphosphate | 153 | 1.80 |
| 5-MeITP | 5-methylindolyl-2'-deoxyriboside 5'-triphosphate | 167 | 2.12 |
| 5-MeCITP | 5-methylcarboxyl-indolyl-2'-deoxyriboside 5'-triphosphate | 200 | 1.46 |
| 5-CITP | 5-carboxylindolyl-2'-deoxyriboside 5'-triphosphate | 178 | 1.19 |
| 5-EyITP | 5-ethyleneindolyl-2'-deoxyriboside 5'-triphosphate | 181 | 2.27 |
| 5-AITP | 5-aminoindolyl-2'-deoxyriboside 5'-triphosphate | 161 | 0.83 |

Surface area (relative size of the nucleobase) and cLog*P* (hydrophobicity)of each compound were calculated using Spartan 08 software.