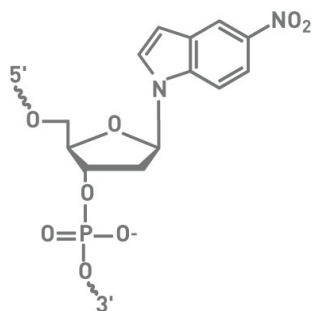


5-Nitroindole

Structure



Key data

Ab_{max} 265 nm

Extinction Coef (260 nm): 16,000

Extinction Coef (at absorbance max): 17,000

5' MW: 340.2 g/mol

Int MW: 340.2 g/mol

Properties

5-Nitroindole is currently the best universal base available. It does not favor any particular base-pairing (i.e., it does not support base-specific hydrogen bond formation), but does contribute to duplex stability through base-stacking interactions. Therefore, it is not as destabilizing to the duplex as mismatches between the standard bases. 5-Nitroindole directs random incorporation of any specific base when used as a template for DNA polymerase and partially blocks enzyme processivity.