

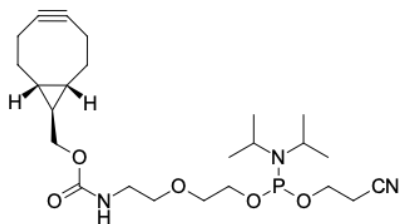
exo-BCN CE-phosphoramidite

<http://www.lumiprobe.com/p/exo-bcn-ce-amidite>

BCN-containing phosphoramidite is added at the 5'-terminus of an oligonucleotide. BCN is reactive both to azides (strain-promoted azide-alkyne cycloaddition, SPAAC) and [tetrazines](#) (inverse electron demand Diels-Alder reaction, IEDDA) .

Coupling time is standard, like for amidites of natural nucleosides. Exclude the dimethoxytrityl (DMT) removal step and use the Dmt-ON protocol after amidite coupling and oxidation.

Use standard conditions for deprotection and ammonia solution, or AMA mixture (ammonium hydroxide / 40% methylamine, 1:1) for 2 hours at room temperature.



Structure of exo-BCN CE-Phosphoramidite

General properties

Appearance: yellowish oil

Mass spec M+ increment: 343.11

Molecular weight: 481.57

Molecular formula: C₂₄H₄₀N₃O₅P

Solubility: good in acetonitrile

Quality control: NMR ¹H, NMR ³¹P (95 %)

Storage conditions: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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