

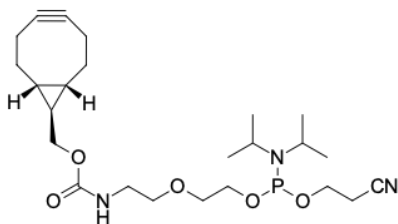
## exo-BCN CE-phosphoramidite

<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: C<sub>24</sub>H<sub>40</sub>N<sub>3</sub>O<sub>5</sub>P

Solubility: good in acetonitrile

Quality control: NMR <sup>1</sup>H, NMR <sup>31</sup>P (95 %)

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

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.