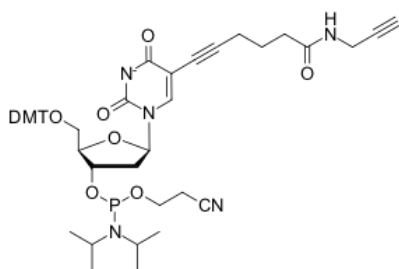


Alkyne dT phosphoramidite

<http://www.lumiprobe.com/p/alkyne-dt-amidite-2>

This reagent is designed for the synthesis of oligonucleotides bearing triple bond (alkyne) in the middle of the chain. Alkyne is attached to the deoxyuridine fragment, and it does not interfere with the hybridization of the complementary strand. This allows the preparation of modified oligonucleotide probes bearing fluorescent dyes, quenchers, and other fragments attached to the middle of the chain by virtue of copper-catalyzed Click chemistry reaction with various azides.

This phosphoramidite is solid, so it is easy to dispense and handle. It is compatible with the standard deblocking conditions.



Structure of alkyne dT phosphoramidite

General properties

| | |
|-------------------------|--|
| Appearance: | off white solid |
| Mass spec M+ increment: | 437.1 |
| Molecular weight: | 877.96 |
| Molecular formula: | C ₄₈ H ₅₆ N ₅ O ₉ P |
| Solubility: | good in acetonitrile, DCM |
| Quality control: | NMR ¹ H, NMR ³¹ P, HPLC-MS |
| Storage conditions: | Storage: 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. |

Oligo synthesis details

| | |
|--------------------------|--|
| Diluent: | acetonitrile |
| Coupling conditions: | standard coupling, identical to normal nucleobases |
| Cleavage conditions: | ammonia, 2 h at room temperature |
| Deprotection conditions: | identical to protected nucleobases |