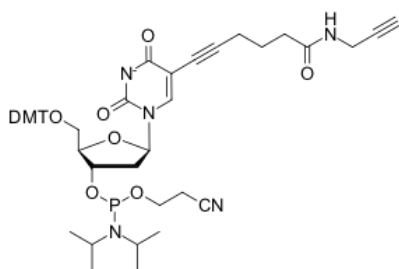


Alkyne dT phosphoramidite

<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 deoxyuridine fragment, and it does not interfere with the hybridization to the complementary strand. This allows to prepare 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.

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