

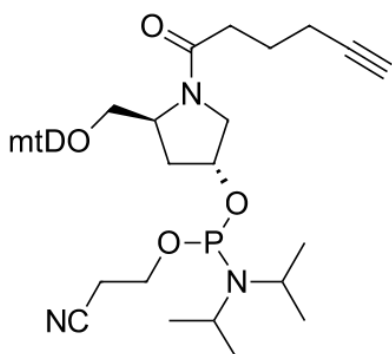
Alkyne amidite, hydroxyprolinol

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

Phosphoramidite for the synthesis of alkyne-modified oligonucleotides. Oligonucleotides can be used for click chemistry modification ([see](#) the protocol).

Diluent for this amidite is acetonitrile, 5 min coupling time is recommended. Standard deprotection conditions can be used for oligonucleotides.

Oligonucleotides can be purified by HPLC or cartridges due to the presence of dimethoxytrityl group, as well as by PAGE.



Alkyne amidite structure

General properties

| | |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance: | colorless semisolid |
| Molecular weight: | 713.84 |
| CAS number: | 1357289-02-1 |
| Molecular formula: | C ₄₁ H ₅₂ N ₃ O ₆ P |
| IUPAC name: | Phosphoramidous acid, N,N-bis(1-methylethyl)-, (3R,5S)-5-[[bis(4-methoxyphenyl)phenylmethoxy]methyl]-1-(1-oxo-5-hexyn-1-yl)-3-pyrrolidiny] 2-cyanoethyl ester |
| Solubility: | good in acetonitrile and dichloromethane |
| Quality control: | NMR ¹ H and ³¹ P, HPLC-MS (95 %) |
| Storage conditions: | Storage: 12 months after receipt at -20°C. Transportation: at room temperature for up to 3 weeks. Desiccate. |
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Oligo synthesis details

| | |
|--------------------------|----------------------------------------------------|
| Diluent: | acetonitrile |
| Coupling conditions: | standard coupling, identical to normal nucleobases |
| Deprotection conditions: | identical to protected nucleobases |