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**Product Data Sheet**


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Product Name: Alkyne Phosphoramidite, 5'-terminal

Cat. No.: GC14135

**Chemical Properties**

Cas. No.

Chemical Name N-[4-[2-cyanoethoxy-[di(propan-2-yl)amino]phosphanyl]oxycyclohexyl]hex-5-ynamide

SMILES CC(C)N(C(C)C)P(OCCC#N)OC1CCC(CC1)NC(=O)CCCC#CFormula  $C_{21}H_{36}N_3O_3P$  M.Wt 409.50

Solubility	good in acetonitrile and dichloromethane	Storage Transportation: at room temperature for up to 3 weeks. Desiccate.
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General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure **Background**

Phosphoramidite for the synthesis of oligonucleotides with 5'-terminal alkyne for Click Chemistry. This alkyne amidite has several advantages over 5'-hexynyl phosphoramidite, 5'-butynyl-CEP, and other 5'-terminal alkyne phosphoramidites. First, it is solid compound which is easier to handle and dispense. And due to its structure, it is also more stable in solution, and has longer shelf life.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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