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**Certificate of Analysis**

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Product Name: Alkyne Phosphoramidite, 5'-terminal  
Cat. No.: GC14135  
Batch No.: 1  
Chemical Name: N-[4-[2-cyanoethoxy-[di(propan-2-yl)amino]phosphanyl]oxycyclohexyl]hex-5-ynamide

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.:  
Molecular Formula:  $C_{21}H_{36}N_3O_3P$   
Molecular Weight: 409.50  
Storage: 24 months after receipt at  $-20^{\circ}C$ . Transportation: at room temperature for up to 3 weeks. Desiccate.  
Chemical Structure:

**ANALYTICAL DATA**

Appearance: solid  
HNMR: Consistent with structure  
HPLC: Consistent with structure  
Purity: >98%  
Conclusion: The product has been tested and complies with the given specifications.

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

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