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**Certificate of Analysis**

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Product Name: CL656 (c-[2'<sup>3</sup>HdAMP(S)-2'<sup>3</sup>HdIMP(S)])  
Cat. No.: GC31875  
Batch No.: 1  
Chemical Name:

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 1951464-79-1  
Molecular Formula: C<sub>20</sub>H<sub>21</sub>F<sub>2</sub>N<sub>9</sub>O<sub>9</sub>P<sub>2</sub>S<sub>2</sub>  
Molecular Weight: 695.51  
Storage: Store at -20°C  
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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