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**Certificate of Analysis**

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Product Name: H-Arg(Pbf)-OtBu . HCl  
Cat. No.: GA22054  
Batch No.: 1  
Chemical Name:

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 1217317-67-3  
Molecular Formula:  $C_{23}H_{38}N_4O_5S \cdot HCl$   
Molecular Weight: 519.11  
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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