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## Certificate of Analysis

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Product Name: Thalidomide-Piperazine-Piperidine hydrochloride  
Cat. No.: GC64640  
Batch No.: 1  
Chemical Name:

### PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.: 2599846-44-1  
Molecular Formula: C<sub>22</sub>H<sub>28</sub>ClN<sub>5</sub>O<sub>4</sub>  
Molecular Weight: 461.94  
Storage: 4°C, away from moisture  
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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