

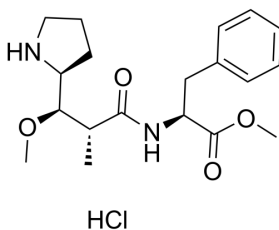
## MMAF intermediate 2

Cat. No.: HY-79254  
CAS No.: 864238-20-0  
Batch No.: 310059  
Chemical Name: L-Phenylalanine, N-[(2R,3R)-3-methoxy-2-methyl-1-oxo-3-(2S)-2-pyrrolidinylpropyl]-, methyl ester, hydrochloride (1:1)

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C<sub>19</sub>H<sub>29</sub>ClN<sub>2</sub>O<sub>4</sub>  
Molecular Weight: 384.90  
Storage: 4°C, stored under nitrogen  
\* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)

### Chemical Structure:



### ANALYTICAL DATA

Appearance: White to off-white (Solid)  
<sup>1</sup>H NMR Spectrum: Consistent with structure  
LCMS: Consistent with structure  
Purity (HPLC): 99.77%  
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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