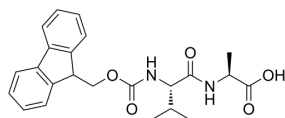


## Certificate of Analysis

**Product Name:** (((9H-Fluoren-9-yl)methoxy)carbonyl)-L-valyl-L-alanine  
**Cat. No.:** CS-0166851  
**CAS No.:** 150114-97-9  
**Batch No.:** 379389  
**Chemical Name:** L-Alanine, N-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-valyl-

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>23</sub>H<sub>26</sub>N<sub>2</sub>O<sub>5</sub>  
**Molecular Weight:** 410.46  
**Storage:** Store at room temperature  
**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** White to off-white (Solid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**Purity (HPLC):** 98.85%  
**Water(KF):** 0.05%  
**Optical Rotation[a]:** -12°(C=0.01 g/mL DMF)  
**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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