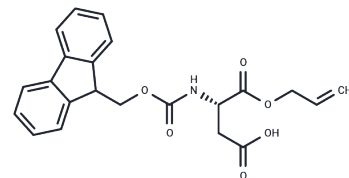


## Fmoc-Asp-OAll

### Chemical Properties

|                   |                                                                                     |
|-------------------|-------------------------------------------------------------------------------------|
| CAS No. :         | 144120-53-6                                                                         |
| Formula:          | C <sub>22</sub> H <sub>21</sub> NO <sub>6</sub>                                     |
| Molecular Weight: | 395.41                                                                              |
| Appearance:       | no data available                                                                   |
| Storage:          | keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|               |                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Fmoc-Asp-OAll (Fmoc-L-aspartic acid a-allyl ester) is an aspartic acid derivative.                                                                                                                                                                                                                                                                                                  |
| Targets(IC50) | Amino Acids and Derivatives                                                                                                                                                                                                                                                                                                                                                         |
| In vitro      | Amino acids and their derivatives are commercially utilized as ergogenic supplements due to their capability to modulate anabolic hormone secretion, fuel provision during exertion, enhancement of mental performance under stress, and prevention of exercise-induced muscle damage. These compounds are acknowledged for their effectiveness as ergogenic dietary substances[1]. |

### Solubility Information

|            |                                                                                                                          |
|------------|--------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 90 mg/mL (227.6 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--------------------------------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.529 mL  | 12.6451 mL | 25.2902 mL |
| 5 mM  | 0.5058 mL | 2.529 mL   | 5.058 mL   |
| 10 mM | 0.2529 mL | 1.2645 mL  | 2.529 mL   |
| 50 mM | 0.0506 mL | 0.2529 mL  | 0.5058 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-1144.

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