

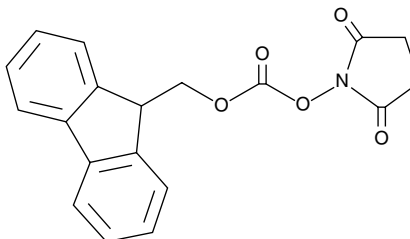
Product Information



FMOC-Succinimide

Item No. 13861

CAS Registry No.: 82911-69-1
Formal Name: 2,5-dioxo-1-pyrrolidinyl 9H-fluoren-9-ylmethyl ester-carbonic acid
Synonyms: N-(9-Fluorenylmethoxycarbonyloxy) succinimide, FMOC-OSu
MF: C₁₉H₁₅NO₅
FW: 337.3
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 257 nm



Laboratory Procedures

For long term storage, we suggest that FMOC-succinimide (FMOC-OSu) be stored as supplied at -20°C. It should be stable for at least two years.

FMOC-OSu is supplied as a crystalline solid. A stock solution may be made by dissolving the FMOC-OSu in the solvent of choice. FMOC-OSu is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of FMOC-OSu in these solvents is approximately 20 and 25 mg/ml, respectively.

FMOC-OSu is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

FMOC-OSu is a mixed carbamate reagent for the selective preparation of N-(9-fluorenylmethoxycarbonyl) derivatives of hydroxyamino acids and hydroxyamino acid esters in high yields.¹ FMOC-OSu is a more preferable alternative to the use of the chloroformate, FMOC-Cl, because it eliminates the formation of dipeptides.¹ FMOC-OSu has also been employed in the synthesis of glycopeptides.

Reference

1. Paquet, A. Introduction of 9-fluorenylmethoxycarbonyl, trichloroethoxycarbonyl, and benzyloxycarbonyl amine protecting groups into O-unprotected hydroxyamino acids using succinimidyl carbonates. *Can. J. Chem.* **60**, 976-980 (1982).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13861

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

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