

TITLE OF INVENTION: METHOD FOR PREPARING FMOC-LYS(IVDDE)-OH

ABSTRACT

The present disclosure provides a method for preparing Fmoc-Lys(Ivdde)-OH, comprising steps of: reacting dimedone with isovaleric acid in the presence of a condensing agent to obtain an intermediate compound; then reacting the intermediate compound with N-alpha-tert-butoxycarbonyl-L-Lysine in the presence of an organic base to obtain an intermediate; then reacting the intermediate with an acid to obtain another intermediate; and finally reacting the another intermediate with N-(9-fluorenylmethoxycarbonyloxy)succinimide in the presence of an inorganic base to obtain Fmoc-Lys(Ivdde)-OH. The method provided by the present disclosure uses dimedone as a starting material to synthesize Fmoc-Lys(Ivdde)-OH via a four-step reaction comprising two condensation reactions, a Boc deprotection reaction, and an Fmoc protection reaction. The method simplifies the process, features simple operations and mild reaction conditions, and reduces the difficulty of industrial production. Furthermore, the method does not involve expensive raw materials, which is beneficial for controlling production costs, and a product is obtained with a high purity and a high yield.

(No suitable figure to accompany the Abstract)