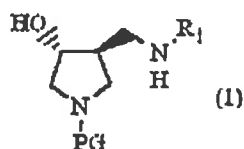


METHOD FOR PRODUCING 3,4-DISUBSTITUTED PYRROLIDINE
DERIVATIVE AND PRODUCTION INTERMEDIATE THEREOF

Abstract

5 Provided is an inexpensive and industrially advantageous method for preparing
(3R,4S)-3-(N-substituted aminomethyl)-4-fluoropyrrolidine or an enantiomer thereof
which can be an intermediate for producing pharmaceuticals. It relates to a method for
preparing (3R,4S)-3-(N-substituted cyclopropylaminomethyl)-4-fluoropyrrolidine
derivative or its enantiomer, or their salts, comprising a step of fluorinating a 4-
hydroxy-3-(N-substituted aminomethyl)pyrrolidine derivative represented by the
10 general formula (1) or an enantiomer thereof using a sulfur tetrafluoride derivative.

[Chem. 1]



[In the formula (1), PG represents a protective group for the amino group, and
15 R₁ represents a C1 to C6 alkyl group which may be substituted, or a C3 to C8
cycloalkyl group which may be substituted.]