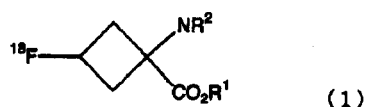


PROCESS FOR PRODUCTION OF RADIOACTIVE  
FLUORINE-LABELED ORGANIC COMPOUND

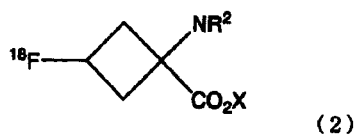
ABSTRACT

Provided is a process for production of [ $^{18}\text{F}$ ]FACBC, which can reduce the production amount of impurities. Disclosed is a process for production of a radioactive fluorine-labeled organic compound, which comprises:

a deesterification step of retaining, in a reverse-phase column, a compound represented by Formula (1):



wherein  $\text{R}^1$  is a linear or branched  $\text{C}_1$ - $\text{C}_{10}$  alkyl chain or an aromatic substituent; and  $\text{R}^2$  is a protecting group; charging the column with an alkaline solution to deesterify the compound, and subsequently discharging the alkaline solution from the column to obtain a compound represented by Formula (2):



wherein X is sodium or potassium; and

a deprotection step of deprotecting the amino-protecting group of the compound obtained in the deesterification step to obtain a compound represented by Formula (3):

