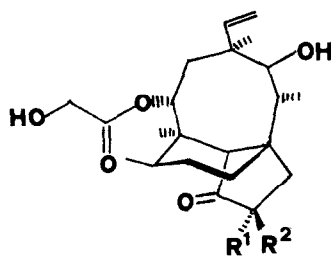
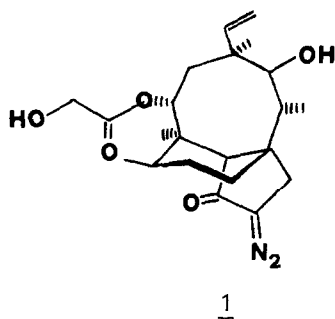


FLUORINATION WITH ELEMENTAL FLUORINE: SYNTHESIS OF 2,2-DIFLUORO-
PLEUROMUTILIN

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Reaction of the Diazoketone 1 derived from the tricyclic di-
terpene Pleuromutilin with elemental Fluorine in $\text{CFCl}_3/\text{CHCl}_3$
at -60°C led to the formation of several fluorinated pro-
ducts (2-4). Using pure CFCl_3 as solvent did not result in
any isolable product, while the addition of solid KF to the
reaction solution increased the yield markedly. Reacting 1
with liquid HF in CH_2Cl_2 at -70°C gave mainly the 2-Fluoro-
pleuromutilin 3 together with the corresponding α,β -unsat-
urated ketone 5 which reacts further to yield the rearrange-
ment product 6.



	R_1	R_2
<u>2</u>	H	F
<u>3</u>	F	H
<u>4</u>	F	F

