

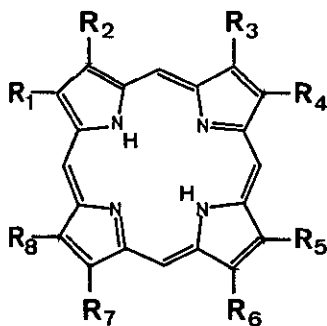
TRIFLUOROMETHYL GROUPS

Akihiro Suzuki^a and Katsuhiko Aoyagi^b

Kamitomioka, Nagaoka, Niigata; a) Nagaoka Technological College,

interaction between apo-protein and prosthetic group by monitoring ^{19}F -NMR spectroscopy.

Successive reduction with B_2H_6 gave 3-hydroxyethyl-4-trifluoromethylpyrrole as a key compound for building the trifluoromethylated protoheme-IX in site-specific manner. Paramagnetic ^{19}F -NMR of met-heme and met-myoglobin reconstituted with new heme will be described by comparing diamagnetic signals of metalloporphyrins.



- 1) $R_1, R_3, R_5, R_8 = -CH_3$ $R_2, R_4 = -I$ $R_6, R_7 = -CH_2CH_2CO_2CH_3$
- 2) " $R_2 = -I, R_4 = -CF_3$ "
- 3) " $R_2, R_4 = -CF_3$ "
- 4) $R_2, R_4 = -CH_2CH_3$ $R_1, R_3 = -CF_3$ $R_5, R_8 = -CH_3$ "
- 5) $R_1, R_3, R_5 = -CH_3$ $R_8 = -CF_3$ $R_2, R_4 = -CH_2CH_3$
 $R_6 = -CH_2CH_2CO_2CH_3$ $R_7 = -CH_2CH_2CN$