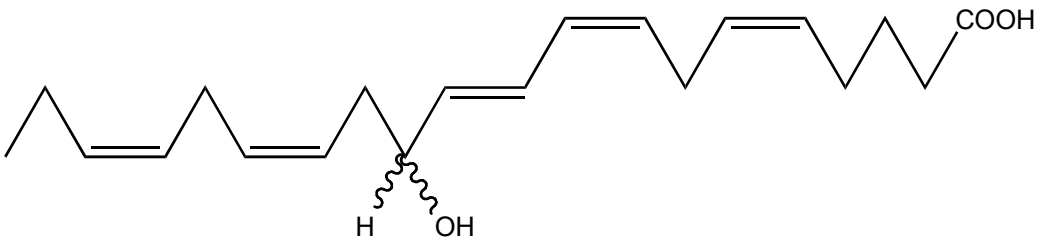
7210 (Miscellaneous)

Name: (12)-Hydroxyeicosa-(5*Z*,8*Z*,10*E*,14*Z*,17*Z*)-pentaenoic acid
Origin: *Laurencia hybrida* (Bembridge Bay, Isle of Wight, England)[(1)];
Formula: $C_{20}H_{30}O_3$
Mol. Wt.: 318.45
Opt. Rot.: $[\alpha]_D^{20}$ -4.5 (MeOH) (Me ester)[(1)]; $[\alpha]_D^{20}$ +4.0 (MeOH) (Me ester)[(2)]
Mp.: Oil (Me ester)



References and Notes

(1) Higgs, M. D. 1981. Tetrahedron, **37**, 4255-4258. Antimicrobial components of the red alga *Laurencia hybrida* (Rhodophyta, Rhodomelaceae). (Me ester; **UV, IR, ^{1}H-NMR, MS**) (together with 11-formyl-undeca-5,8,10-trienoic acid, 12-hydroxyeicosa-5,8,10,14,17-pentaenoic acid (as 9-hydoxyeicosa-2,5,7,11,14-pntanoic acid))

(2) **Structure revision**; Bernart, M. and Gerwick, W. H. 1988. Tetrahedron Lett., **29**, 2015-2018. Isolation of 12-(*S*)-HEPE from the red marine alga *Murrayella periclados* and revision of structure of an acyclic icosanoid from *Laurencia hybrida*. Implications to the biosynthesis of the marine prostanoid hybridalactone. 12-(*S*)-HEPE (**^{1}H-NMR**); Me ester (**UV, IR, ^{1}H-NMR**); Me ester acetate (**UV, IR, ^{1}H-NMR, ^{13}C-NMR**)