

Lorillard

MEMORANDUM

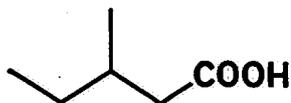
August 19, 1988

TO: J. R. Reid

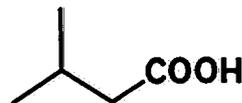
FROM: R. F. Dufresne

SUBJECT: Supplemental Information Search Summary for Compound A1

The compound 3-methylpentanoic acid 1 is designated A1 and has the CAS registry number 22160-40-3. One new reference to biological activity of 3-methylpentanoic acid was found on searching the literature from January 1980 to the present. This material inhibits uptake of mevalonic acid in cholesterol synthesis (1). The structure of A1 is quite simple, limiting the choice of model compounds to 3-methylbutanoic acid 2, A52. Both compounds are saturated aliphatic acids with a methyl at the third or beta carbon, with no other relevant functional characteristic.



1



2

Rearrangement or other partial elimination of the structure of 1 would generate a molecule with a significantly different chemistry.

References to the low activity of the structurally similar 3-methylbutanoic acid can be found in the Information Search Summary for A52 (2).

Richard F. Dufresne
R. F. Dufresne

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/jw:1

Xc: E. W. Crouse
A. P. Deaton
J. D. Heck
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T. A. Vollmuth

REFERENCES:

1. DeBold, C. R.; Elwood, J. C. Mevalonic Acid Analogs as Inhibitors of Cholesterol Biosynthesis. *Journal of Pharmaceutical Sciences* 70(9): 1007-10; 1981 September.
2. Gains, L. H. Information Search Summary for A52. Greensboro, N.C.: Lorillard Research Center, 1981 May 15.

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