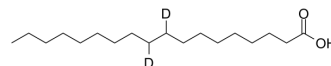


## Stearic acid-9,10-d2

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-B2219S5  |
| CAS No.:           | 57396-97-1  |
| Molecular Formula: | C <sub>18</sub> H <sub>34</sub> D <sub>2</sub> O <sub>2</sub>                             |
| Molecular Weight:  | 286.49  |
| Target:            | Endogenous Metabolite   |
| Pathway:           | Metabolic Enzyme/Protease   |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                    |  |
|--------------------|--|
| <b>Description</b> | Stearic acid-9,10-d2 is the deuterium labeled Stearic acid. Stearic acid is a long chain dietary saturated fatty acid which exists in many animal and vegetable fats and oils.   |
| <b>In Vitro</b>    | Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Shen MC et al. Dietary stearic acid leads to a reduction of visceral adipose tissue in athymic nude mice. *PLoS One*. 2014 Sep 15;9(9):e104083.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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