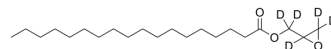


## Glycidyl stearate-d<sub>5</sub>

|                           |   |       |          |
|---------------------------|---|-------|----------|
| <b>Cat. No.:</b>          | HY-W011188S   |       |          |
| <b>CAS No.:</b>           | 1346598-19-3  |       |          |
| <b>Molecular Formula:</b> | C <sub>21</sub> H <sub>35</sub> D <sub>5</sub> O <sub>3</sub> |       |          |
| <b>Molecular Weight:</b>  | 345.57  |       |          |
| <b>Target:</b>            | Isotope-Labeled Compounds                                     |       |          |
| <b>Pathway:</b>           | Others  |       |          |
| <b>Storage:</b>           | Powder  | -20°C | 3 years  |
|                           |   | 4°C   | 2 years  |
|                           | In solvent  | -80°C | 6 months |
|                           |   | -20°C | 1 month  |



### BIOLOGICAL ACTIVITY

#### Description

Glycidyl stearate-d<sub>5</sub> is a deuterium labeled Glycidyl stearate (HY-W011188). Oxiran-2-ylmethyl stearate is a compound belonging to the class of esters. It contains reactive oxirane or epoxy groups that give the molecule its unique properties. Oxiran-2-ylmethyl stearate is derived from stearic acid and epichlorohydrin, which are naturally occurring substances. Glycidyl stearate is commonly used in various industrial applications such as the production of coatings, adhesives and surfactants. It can also be used as a crosslinking agent in the manufacture of polymers and resins.

#### In Vitro

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>.  
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 Feb;53(2):211-246.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA