

## Product Data Sheet

Product Name: Nervonic acid-d 18

Cat. No.: GC80509

### Chemical Properties

Cas. No.

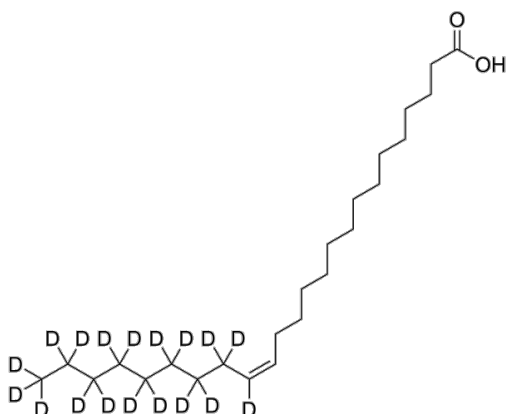
Formula  $C_{24}H_{28}D_{18}O_2$  M.Wt 384.73

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



### Background

Nervonic acid -d 18 (Selacholeic acid-d 18 ) is the deuterium labeled Nervonic acid. Nervonic acid is a monounsaturated fatty acid with oral activity. Nervonic acid exerts anti-inflammatory activity by inhibiting NF-κB signaling. Nervonic acid can be used in the study of neurodegenerative diseases [1] [2] [3].

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

## Product Data Sheet

---

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.

### References:

- [1]. Umemoto H, et al. Protective Effect of Nervonic Acid Against 6-Hydroxydopamine-Induced Oxidative Stress in PC-12 Cells. J Oleo Sci. 2021;70(1):95-102.
- [2]. Hu D, et al. Nervonic acid amends motor disorder in a mouse model of Parkinson's disease. Transl Neurosci. 2022 Apr 20;13(1):71.
- [3]. Yuan SN, et al. Improved colonic inflammation by nervonic acid via inhibition of NF- $\kappa$ B signaling pathway of DSS-induced colitis mice. Phytomedicine. 2023 Apr;112:154702.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA