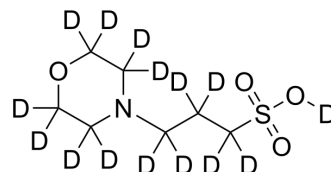


## MOPS-d<sub>15</sub>

Cat. No.:	HY-D0859S
CAS No.:	1219799-30-0
Molecular Formula:	C <sub>7</sub> D <sub>15</sub> NO <sub>4</sub> S
Molecular Weight:	224.36
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	MOPS-d <sub>15</sub> is the deuterium labeled MOPS[1]. MOPS is commonly used as a buffering agent in biology. MOPS buffer can maintain the pH of mammalian cell culture media[2][3].
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):211-216.
- [2]. Steven D Carson, et al. MOPS and coxsackievirus B3 stability. *Virology*. 2017 Jan 15;501:183-187.
- [3]. Juliane Schmidt, et al. Effect of Tris, MOPS, and phosphate buffers on the hydrolysis of polyethylene terephthalate films by polyester hydrolases. *FEBS Open Bio*. 2016 Jul 206(9):919-27.

**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