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Zuschläge

- Mindermengenzuschlag
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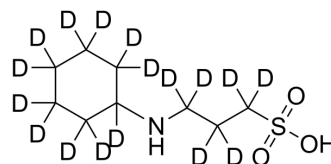
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3-(Cyclohexylamino)-1-propanesulfonic Acid-d₁₇

Cat. No.:	HY-D0869S
CAS No.:	1219804-15-5
Molecular Formula:	C ₉ H ₂ D ₁₇ NO ₃ S
Molecular Weight:	238.42
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	3-(Cyclohexylamino)-1-propanesulfonic Acid-d ₁₇ is the deuterium labeled CAPS[1]. CAPS, cyclohexylaminopropane sulfonic acid, is a surfactant. CAPS can be used as biological buffer (0.05 M, pH 11) for dialysis[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 ^[1] . 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]. Bedard P R, et al. Ion Interaction: The Energetics and Mechanism of The Competitive Behavior Between Two Similarly Charged Molecules. 1. The Effect of Ionic Strength, Acetonitrile and Surfactant Concentration[J]. *Journal of Liquid Chromatography*, 1985, 8(13):2417-2443.
- [3]. Oberley TD, et al. The effect of the dimeric and multimeric forms of fibronectin on the adhesion and growth of primary glomerular cells. *Exp Cell Res*. 1983 May;145(2):265-76.

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

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