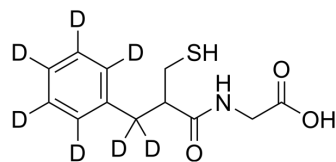


Thiorphan-d₇

Cat. No.:	HY-W013375S
CAS No.:	1276297-68-7
Molecular Formula:	C ₁₂ H ₈ D ₇ NO ₃ S
Molecular Weight:	260.36
Target:	Neprilysin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Thiorphan-d ₇ is the deuterium labeled Thiorphan[1]. Thiorphan is a selective NEP (neprilysin) inhibitor with an IC ₅₀ of 6.9 nM[2].
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]. Whyteside AR, Turner AJ. Human neprilysin-2 (NEP2) and NEP display distinct subcellular localisations and substrate preferences. *FEBS Lett*. 2008 Jul 9;582(16):2382-6.

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