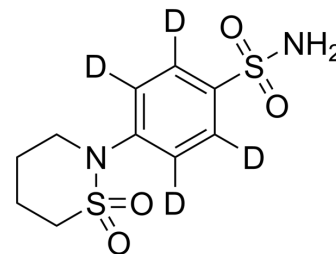


## Sulthiame-d<sub>4</sub>

<b>Cat. No.:</b>	HY-108316S
<b>CAS No.:</b>	1795021-05-4
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>10</sub> D <sub>4</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	294.38
<b>Target:</b>	Carbonic Anhydrase; Isotope-Labeled Compounds
<b>Pathway:</b>	Metabolic Enzyme/Protease; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Sulthiame-d <sub>4</sub> is the deuterium labeled Sultiame. Sultiame is a carbonic anhydrase inhibitor, widely used as an antiepileptic agent[1][2].
<b>In Vitro</b>	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;53(2):211-216.
- [2]. Milburn-McNulty P, et al. Sulthiame add-on therapy for epilepsy. *Cochrane Database Syst Rev*. 2015 Oct 28;(10):CD009472.

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

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