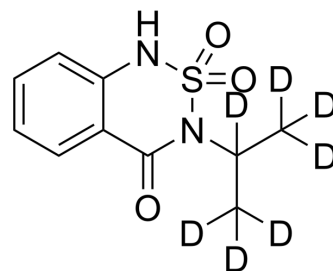


Bentazone-d7

| | |
|--------------------|---|
| Cat. No.: | HY-B2039S1 |
| CAS No.: | 131842-77-8 |
| Molecular Formula: | C ₁₀ H ₅ D ₇ N ₂ O ₃ S |
| Molecular Weight: | 247.32 |
| Target: | Isotope-Labeled Compounds |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------|--|
| Description | Bentazone-d ₇ is the deuterium labeled Bentazone[1]. Bentazone is a post-emergence herbicide used for selective control of broadleaf weeds and sedges in beans, rice, corn, peanuts, mint and others. It acts by interfering with photosynthesis[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]. Lina Shi, et al. Herbicide Applications Increase Greenhouse Gas Emissions of Alfalfa Pasture in the Inland Arid Region of Northwest China. *PeerJ*. 2020 May 25;8:e9231.

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

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