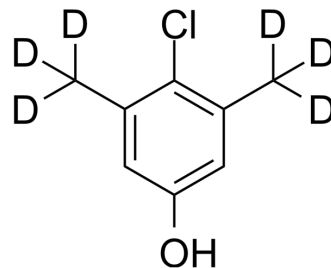


Chloroxylenol-d₆

| | |
|---------------------------|---|
| Cat. No.: | HY-B1414S |
| CAS No.: | 1407521-66-7 |
| Molecular Formula: | C ₈ H ₃ D ₆ ClO |
| Molecular Weight: | 162.65 |
| Target: | Bacterial; Influenza Virus; Isotope-Labeled Compounds |
| Pathway: | Anti-infection; Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Chloroxylenol-d ₆ is the deuterium labeled Chloroxylenol. Chloroxylenol is a broad spectrum antimicrobial chemical compound used to control bacteria, algae, fungi and virus. |
| 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;53(2):211-216.
- [2]. Holt GS, et al. Shigatoxin encoding Bacteriophage φ24B modulates bacterial metabolism to raise antimicrobial tolerance. *Sci Rep*. 2017 Jan 20;7:40424.
- [3]. Wood A, et al. The action of three antiseptics/disinfectants against enveloped and non-enveloped viruses. *J Hosp Infect*. 1998 Apr;38(4):283-95.

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

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