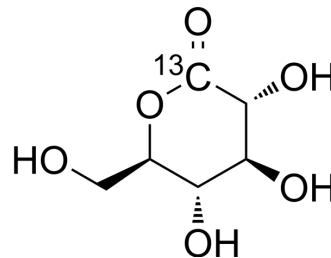


D-(+)-Glucono-1,5-lactone-1-¹³C

| | |
|---------------------------|---|
| Cat. No.: | HY-I0301S |
| Molecular Formula: | C ₅ ¹³ CH ₁₀ O ₆ |
| Molecular Weight: | 179.13 |
| Target: | Endogenous Metabolite; Reactive Oxygen Species; Isotope-Labeled Compounds |
| Pathway: | Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB; Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | D-(+)-Glucono-1,5-lactone-1- ¹³ C is the ¹³ C labeled D-(+)-Glucono-1,5-lactone. D-(+)-Glucono-1,5-lactone is a polyhydroxy (PHA) that is capable of metal chelating, moisturizing and antioxidant activ[1][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]. Xu Y, et al. Aggregation and structural changes of silver carp actomyosin as affected by mild acidification with D-gluconic acid δ-lactone. *Food Chem*. 2012 Sep 15;134(2):1005-10.

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

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