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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

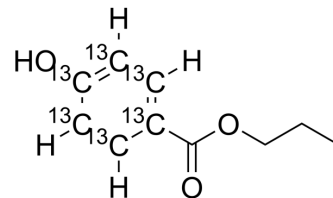
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Propyl paraben-¹³C₆

Cat. No.:	HY-W654020
CAS No.:	2075718-26-0
Molecular Formula:	C ₄ ¹³ C ₆ H ₁₂ O ₃
Molecular Weight:	186.16
Target:	Isotope-Labeled Compounds; Apoptosis; Endogenous Metabolite; Bacterial
Pathway:	Others; Apoptosis; Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Propyl paraben-¹³C₆ (Propyl parahydroxybenzoate-¹³C₆) is ¹³C labeled Propylparaben. Propylparaben (Propyl parahydroxybenzoate) is an antibacterial preservative that can be produced by plants and bacteria. Propylparaben is commonly used in cosmetics, pharmaceuticals and foods. Propylparaben disrupts follicular growth and steroidogenic function by altering cell cycle, apoptosis and steroidogenic pathways. Propylparaben also reduced sperm count and motility in rats^{[1][2][3][4][5][6][7]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. S Oishi, et al. Effects of propyl paraben on the male reproductive system. *Food Chem Toxicol*. 2002 Dec;40(12):1807-13.
- [3]. Gal A, et, al. Propylparaben inhibits mouse cultured antral follicle growth, alters steroidogenesis, and upregulates levels of cell-cycle and apoptosis regulators. *Reprod Toxicol*. 2019 Oct;89:100-106.
- [4]. Final amended report on the safety assessment of Methylparaben, Ethylparaben, Propylparaben, Isopropylparaben, Butylparaben, Isobutylparaben, and Benzylparaben as used in cosmetic products. *Int J Toxicol*. 2008;27 Suppl 4:1-82.
- [5]. Ji X, et al. Propyl paraben inhibits voltage-dependent sodium channels and protects cardiomyocytes from ischemia-reperfusion injury. *Life Sci*. 2004 Apr 30;74(24):3043-52.
- [6]. Yan W, et al. Chronic exposure to propylparaben at the humanly relevant dose triggers ovarian aging in adult mice. *Ecotoxicol Environ Saf*. 2022 Apr 15;235:113432.
- [7]. Gal A, et al. Propylparaben inhibits mouse cultured antral follicle growth, alters steroidogenesis, and upregulates levels of cell-cycle and apoptosis regulators. *Reprod Toxicol*. 2019 Oct;89:100-106.

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