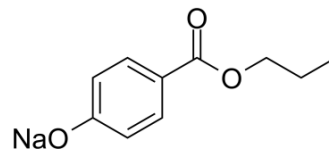


## Propylparaben sodium

Cat. No.:	HY-N2026A
CAS No.:	35285-69-9
Molecular Formula:	C <sub>10</sub> H <sub>11</sub> NaO <sub>3</sub>
Molecular Weight:	202.18
Target:	Endogenous Metabolite; Bacterial; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Anti-infection; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Propylparaben sodium (Propyl parahydroxybenzoate) is an antimicrobial preservative which can be produced naturally by plants and bacteria. Propylparaben sodium is prevalently used in cosmetics, pharmaceuticals, and foods. Propylparaben sodium disrupts antral follicle growth and steroidogenic function by altering the cell-cycle, apoptosis, and steroidogenesis pathways. Propylparaben sodium also decreases sperm number and motile activity in rats<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. S Oishi, et al. Effects of propyl paraben on the male reproductive system. Food Chem Toxicol. 2002 Dec;40(12):1807-13.
- [2]. 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.
- [3]. 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.

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

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