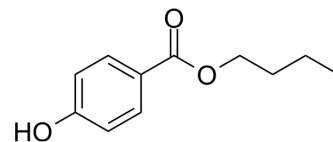


## Butylparaben

<b>Cat. No.:</b>	HY-B1431		
<b>CAS No.:</b>	94-26-8		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>14</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	194.23		
<b>Target:</b>	Bacterial; Endogenous Metabolite; DNA/RNA Synthesis		
<b>Pathway:</b>	Anti-infection; Metabolic Enzyme/Protease; Cell Cycle/DNA Damage		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 2.0 mg/mL (10.30 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		5.1485 mL	25.7427 mL	51.4854 mL
	5 mM		1.0297 mL	5.1485 mL	10.2971 mL
	10 mM		0.5149 mL	2.5743 mL	5.1485 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Butylparaben is an organic compound that has proven to be a very successful antimicrobial preservative in cosmetics, can also be used in active molecule suspensions, and as a food flavoring additive<sup>[1]</sup>.

#### In Vitro

Butylparaben (0-500 μM, 44 h) inhibits oricine fertilization, cleavage, and blastocyst formation rates<sup>[2]</sup>.  
 Butylparaben induces DNA Damage, apoptosis, and autophagy in porcine oocytes<sup>[2]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

Butylparaben (0-50 mg/kg/day, s.c., for 13 weeks) has not systemic toxicity in rats<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- SSRN. 2023 Aug 10.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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- [1]. Bae JS, et al. Thirteen-week subcutaneous repeated dose toxicity study of butylparaben and its toxicokinetics in rats. Arch Toxicol. 2021 Jun;95(6):2037-2050.
- [2]. Jeong PS, et al. Butylparaben Is Toxic to Porcine Oocyte Maturation and Subsequent Embryonic Development Following In Vitro Fertilization. Int J Mol Sci. 2020 May 24;21(10):3692.
- [3]. Jeong PS, et al. Butylparaben Is Toxic to Porcine Oocyte Maturation and Subsequent Embryonic Development Following In Vitro Fertilization. Int J Mol Sci. 2020 May 24;21(10):3692.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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