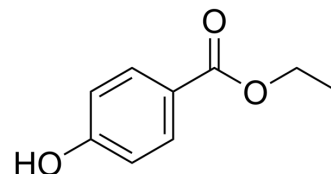


Ethylparaben

Cat. No.:	HY-B0934		
CAS No.:	120-47-8		
Molecular Formula:	C ₉ H ₁₀ O ₃		
Molecular Weight:	166.17		
Target:	Bacterial; Fungal		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (601.79 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	6.0179 mL	30.0897 mL	60.1793 mL
	5 mM	1.2036 mL	6.0179 mL	12.0359 mL
	10 mM	0.6018 mL	3.0090 mL	6.0179 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Ethylparaben is the ethyl ester of paraben and is used as an antifungal preservative and food additive ^{[1][2]} .
In Vitro	Ethylparaben (0-20 mg/mL) shows antibacteria and antifungal activities against a panel of microbes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Ethylparaben (0-40 mg/kg, oral gavage) increases uterine weights in SD rats, and increases estrogen-responsive gene level ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Sun L, Yu T, et al. The estrogenicity of methylparaben and ethylparaben at doses close to the acceptable daily intake in immature Sprague-Dawley rats. *Sci Rep.* 2016 Apr 28;6:25173.
- [2]. Jianmei C, et al. Identification of ethylparaben as the antimicrobial substance produced by *Brevibacillus brevis* FJAT-0809-GLX. *Microbiol Res.* 2015 Mar;172:48-56.
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Caution: Product has not been fully validated for medical applications. For research use only.

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