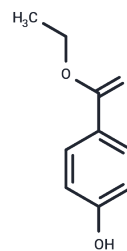


Ethylparaben

Chemical Properties

CAS No. :	120-47-8
Formula:	C ₉ H ₁₀ O ₃
Molecular Weight:	166.17
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ethylparaben (Ethyl parahydroxybenzoate) is a Standardized Chemical Allergen. The physiologic effect of ethylparaben is by means of Increased Histamine Release, and Cell-mediated Immunity.
Targets(IC50)	Antibacterial, Antifungal
In vitro	Ethylparaben has weak estrogenic and weak anti-androgenic effects in vitro[2].
In vivo	In vivo studies indicate that ethylparaben has estrogenic effects in vivo in immature and ovariectomized mice. A study on fetal exposure to ethylparaben revealed no changes in male anogenital distance and no changes of fetal testosterone production, but changes in gene expression levels pointed to subtle endocrine disrupting effects. A limited study in young male rats found no adverse effects, although tendencies to lower sperm counts are seen. Ethylparaben causes vitellogenin induction in fish[2].

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 255 mg/mL (1534.57 mM), Sonication is recommended. Ethanol: 31 mg/mL (186.56 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (12.04 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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	3.009 mL	6.0179 mL
50 mM	0.1204 mL	0.6018 mL	1.2036 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Frederiksen H, et al. Toxicol Sci. 2008, 106(2):376-83.

Evaluation of tebuconazole, triclosan, methylparaben and ethylparaben according to the Danish proposal for criteria for endocrine disrupters, May 2012.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481