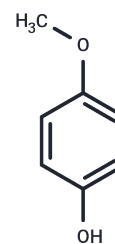


## Mequinol

## Chemical Properties

CAS No. :	150-76-5
Formula:	C7H8O2
Molecular Weight:	124.14
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	Mequinol (Leucobasal) is a synthetic derivate of hydroquinone and depigmenting agent. Although the exact mechanism of the depigmenting effects of mequinol remains unclear, it may exert its effect by oxidation of tyrosinase to cytotoxic products in melanocytes.
Targets(IC50)	Estrogen Receptor/ERR,Others,HSP
In vivo	Leucobasal is commercially available in the United States as a 2% topical formulation for skin lightening purposes. It acts as a substrate for tyrosinase, thereby functioning as a competitive inhibitor of melanin precursor formation. When diluted in a medium or applied topically on the stratum corneum (RE), Leucobasal leads to reduced pigmentation by decreasing melanin in differentiated keratinocytes and melanocytes. This results in a lowered count of dopa-positive melanocytes induced by Leucobasal.

## Solubility Information

Solubility	H2O: 23 mg/mL (185.27 mM),Sonication is recommended. Ethanol: 24 mg/mL (193.33 mM),Sonication is recommended. DMSO: 50 mg/mL (402.77 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 (16.11 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

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	1mg	5mg	10mg
1 mM	8.0554 mL	40.2771 mL	80.5542 mL
5 mM	1.6111 mL	8.0554 mL	16.1108 mL
10 mM	0.8055 mL	4.0277 mL	8.0554 mL
50 mM	0.1611 mL	0.8055 mL	1.6111 mL

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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

- Bessou S, et al. Arch Dermatol, 1997, 133(3), 331-336.  
Draeos ZD, et al. Dermatol Ther, 2007, 20(5), 308-313.

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