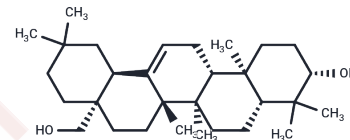


## Erythrodiol

## Chemical Properties

CAS No. :	545-48-2
Formula:	C <sub>30</sub> H <sub>50</sub> O <sub>2</sub>
Molecular Weight:	442.72
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	Erythrodiol, an olive oil component, promotes Cholesterol efflux (ChE) by selectively inhibiting the degradation of ABCA1 protein.
Targets(IC50)	Endogenous Metabolite, ABC Transporter
In vitro	Erythrodiol (1-15 $\mu$ M; 24 hours) increases ABCA1 protein levels in a concentration-dependent manner, achieving significant effects at 10 and 15 $\mu$ M.
Cell Research	Cell Line: THP-1 macrophage cells. Concentration: 1 $\mu$ M, 2.5 $\mu$ M, 5 $\mu$ M, 10 $\mu$ M, and 15 $\mu$ M. Incubation Time: 24 hours

## Solubility Information

Solubility	DMSO: 6.3 mg/mL (14.23 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.63 mg/mL (1.42 mM), Suspension. <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	2.2588 mL	11.2938 mL	22.5876 mL
5 mM	0.4518 mL	2.2588 mL	4.5175 mL
10 mM	0.2259 mL	1.1294 mL	2.2588 mL
50 mM	0.0452 mL	0.2259 mL	0.4518 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

Wang L, et al. Erythrodiol, an Olive Oil Constituent, Increases the Half-Life of ABCA1 and Enhances Cholesterol Efflux from THP-1-Derived Macrophages. *Front Pharmacol.* 2017 Jun 13;8:375.

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