

## 12-Ketodeoxycholic acid

## Chemical Properties

CAS No. : 5130-29-0

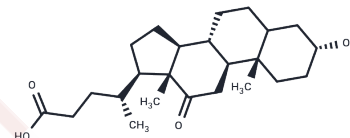
Formula: C<sub>24</sub>H<sub>38</sub>O<sub>4</sub>

Molecular Weight: 390.56

Store at low temperature

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	12-Ketodeoxycholic acid, a bile acid and kidney metabolite, serves as a detectable marker for kidney injury [1].
Targets(IC50)	Endogenous Metabolite
In vitro	Bile acids, resulting from the conjugation of cholesterol, are synthesized by the liver and subsequently secreted into the intestine[1] for incorporation into bile.

## Solubility Information

Solubility	DMSO: 260 mg/mL (665.71 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: 4 mg/mL (10.24 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.5604 mL	12.8021 mL	25.6043 mL
5 mM	0.5121 mL	2.5604 mL	5.1209 mL
10 mM	0.256 mL	1.2802 mL	2.5604 mL
50 mM	0.0512 mL	0.256 mL	0.5121 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

Chen H, et al. Metabolomics insights into activated redox signaling and lipid metabolism dysfunction in chronic kidney disease progression. *Redox Biol.* 2016 Dec;10:168-178.

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