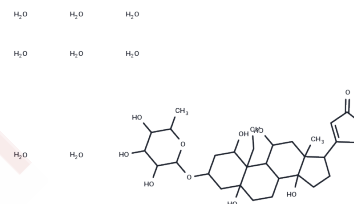


## Ouabain octahydrate

### Chemical Properties

CAS No. : 11018-89-6  
 Formula: C<sub>29</sub>H<sub>44</sub>O<sub>12</sub>·8H<sub>2</sub>O  
 Molecular Weight: 728.77  
 Storage: Store at low temperature  
 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	Ouabain octahydrate (Acocantherine) is a cardiac glycoside that inhibits Na(+)/K(+) ATPase. Ouabain octahydrate regulates transcription of MDR (increase, Pgp) and MRP (increase MRP1 and decrease CFTR, cystic fibrosis transport receptor or cAMP-activated Cl- channel) genes, also alters localization of MRP1.
Targets(IC50)	ATPase, Autophagy

### Solubility Information

Solubility	DMSO: 126 mg/mL (172.89 mM), Sonication is recommended. H <sub>2</sub> O: 2.08 mg/mL (2.85 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 (5.49 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	1.3722 mL	6.8609 mL	13.7218 mL
5 mM	0.2744 mL	1.3722 mL	2.7444 mL
10 mM	0.1372 mL	0.6861 mL	1.3722 mL
50 mM	0.0274 mL	0.1372 mL	0.2744 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

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