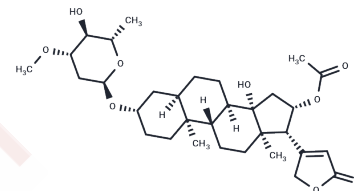


## Oleandrin

## Chemical Properties

CAS No. :	465-16-7
Formula:	C <sub>32</sub> H <sub>48</sub> O <sub>9</sub>
Molecular Weight:	576.72
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	1. Oleandrin (Folinerin), the principal cardiac glycoside component of PBI-524, can quantitatively account for regulation of BDNF at both the protein and transcriptional levels. 2. Oleandrin are known to inhibit the Na, K-ATPase pump, resulting in a consequent increase in calcium influx in heart muscle. 3. Oleandrin has stronger anti-proliferative activity in undifferentiated CaCO-2 cells (IC <sub>50</sub> , 8.25 nM) , causes an autophagic cell death and altered ERK phosphorylation in undifferentiated.
Targets(IC <sub>50</sub> )	Apoptosis,ATPase,Potassium Channel,Sodium Channel

## Solubility Information

Solubility	Ethanol: Soluble, Pyridine, Methanol, etc.: Soluble, DMSO: 150 mg/mL (260.09 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (17.34 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (17.34 mM),Solution. <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	1.7339 mL	8.6697 mL	17.3394 mL
5 mM	0.3468 mL	1.7339 mL	3.4679 mL
10 mM	0.1734 mL	0.867 mL	1.7339 mL
50 mM	0.0347 mL	0.1734 mL	0.3468 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

- Raviprakash N , Manna S K . Short-term exposure to oleandrin enhances responses to IL-8 by increasing cell surface IL-8 receptors[J]. *British Journal of Pharmacology*, 2014, 171(14):3339-3351.
- Pan L, Zhang Y, Zhao W, et al. The cardiac glycoside oleandrin induces apoptosis in human colon cancer cells via the mitochondrial pathway. *Cancer Chemotherapy and Pharmacology*. 2017 Jul;80(1):91-100
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