

## Obacunone

## Chemical Properties

CAS No. : 751-03-1

Formula: C<sub>26</sub>H<sub>30</sub>O<sub>7</sub>

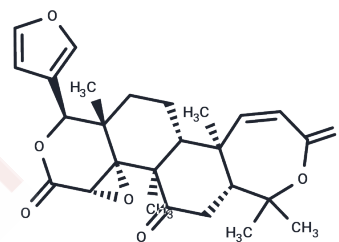
Molecular Weight: 454.51

Storage:

Keep away from direct sunlight, Store under nitrogen,  
Keep away from moisture

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	Obacunone has cytotoxicity in androgen-dependent human prostate Y cells. Obacunone exerts an antivirulence effect on <i>S. Typhimurium</i> and may serve as a lead compound for development of antivirulence strategies for <i>S. Typhimurium</i> . Obacunone may have the potential to prevent estrogen-responsive breast Y through inhibition of the aromatase enzyme and inflammatory pathways, as well as activation of apoptosis.
Targets(IC50)	Apoptosis, Aromatase, p38 MAPK

## Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 250 mg/mL (550.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	50% PEG300+50% Saline: 1 mg/mL (2.2 mM), Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.26 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

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.2002 mL	11.0009 mL	22.0017 mL
5 mM	0.440 mL	2.2002 mL	4.4003 mL
10 mM	0.220 mL	1.1001 mL	2.2002 mL
50 mM	0.044 mL	0.220 mL	0.440 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

Murthy KN, et al. Toxicology. 2015 Mar 2;329:88-97.

Kim J, et al. Biochimie. 2014 Oct;105:36-44.

Vikram A, et al. Appl Environ Microbiol. 2012 Oct;78(19):72012-22.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481