

## 7-Oxogedunin

## Chemical Properties

CAS No. :	13072-74-7
Formula:	C <sub>26</sub> H <sub>30</sub> O <sub>6</sub>
Molecular Weight:	438.52
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	7-Oxogedunin (Compound 7DG; Compound 16) is a small molecule that protects macrophages from pyroptosis induced by anthrax lethal toxin (LT) by targeting protein kinase R (PKR). By inhibiting the kinase-independent functions of PKR, 7-Oxogedunin effectively suppresses the assembly of various inflammasomes (NLRP1 and NLRP3) and the activation of caspase-1. It also exhibits growth inhibitory activity against European corn borer larvae. 7-Oxogedunin is used in research focusing on LT toxicity inhibition and insecticidal studies.
Targets(IC50)	Caspase,NOD-like Receptor (NLR),Pyroptosis

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2804 mL	11.402 mL	22.804 mL
5 mM	0.4561 mL	2.2804 mL	4.5608 mL
10 mM	0.228 mL	1.1402 mL	2.2804 mL
50 mM	0.0456 mL	0.228 mL	0.4561 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.

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