

## Deltonin

## Chemical Properties

CAS No. : 55659-75-1

Formula: C<sub>45</sub>H<sub>72</sub>O<sub>17</sub>

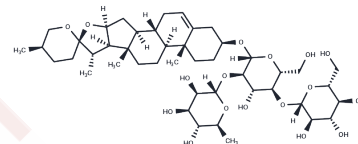
Molecular Weight: 885.04

Keep away from direct sunlight, Keep away from moisture

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	Deltonin has an inhibition of ERK1/2 and AKT activation. Deltonin shows cytotoxicity against human HepG2 cells (IC <sub>50</sub> : 7.66 μM), mouse C26 cells (IC <sub>50</sub> : 1.22 μM), and human MDA-MB-231 cells (IC <sub>50</sub> : 1.58 μM).
Targets(IC <sub>50</sub> )	ERK,Akt,Endogenous Metabolite

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble) DMSO: 100 mg/mL (112.99 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1299 mL	5.6495 mL	11.2989 mL
5 mM	0.226 mL	1.1299 mL	2.2598 mL
10 mM	0.113 mL	0.5649 mL	1.1299 mL
50 mM	0.0226 mL	0.113 mL	0.226 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

Tong QY, et al. Deltonin, a steroidal saponin, inhibits colon cancer cell growth in vitro and tumor growth in vivo via induction of apoptosis and antiangiogenesis. *Cell Physiol Biochem*. 2011;27(3-4):233-42.

Zhang S, et al. Deltonin induces apoptosis in MDA-MB-231 human breast cancer cells via reactive oxygen species-mediated mitochondrial dysfunction and ERK/AKT signaling pathways. *Mol Med Rep*. 2013 Mar;7(3):1038-44.

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