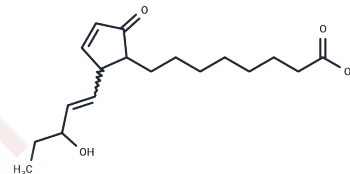


## A1-Phytostane-I

## Chemical Properties

CAS No. :	1035557-09-5
Formula:	C <sub>18</sub> H <sub>28</sub> O <sub>4</sub>
Molecular Weight:	308.41
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	A1-Phytostane-I is a cyclopentenone isoprostane produced by the action of reactive oxygen species on $\alpha$ -linolenic acid in plants. There are two A1-phytostanes, both having the single ketone group on the ring structure. This isoform results from cyclization between carbons 9 and 13 of linolenic acid, as opposed to carbons 3 and 7 in A1-phytostane-II. A1-Phytostanes induce the expression of glutathione-S-transferase, increase phytoalexin biosynthesis, and trigger the expression of several genes involved in primary and secondary metabolism in plants.
Targets(IC50)	Others

## Solubility Information

Solubility	Ethanol: 10 mg/mL (32.42 mM),Sonication is recommended. DMSO: 20 mg/mL (64.85 mM),Sonication is recommended. DMF: 20 mg/mL (64.85 mM),Sonication is recommended. DMSO:PBS(pH7.2) (1:1): 0.5 mg/mL (1.62 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2424 mL	16.2122 mL	32.4244 mL
5 mM	0.6485 mL	3.2424 mL	6.4849 mL
10 mM	0.3242 mL	1.6212 mL	3.2424 mL
50 mM	0.0648 mL	0.3242 mL	0.6485 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.

**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