

**Product Name:** GA3-AM

**Catalog No.:** 5407

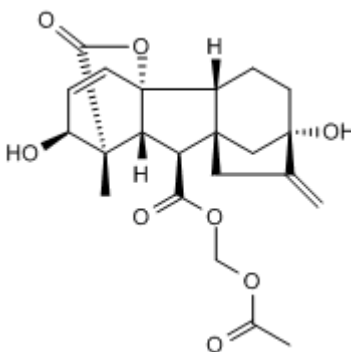
**Batch No.:** 1

CAS Number: 1373154-68-7

IUPAC Name: (1S,2S,4aR,4bR,7S,9aS,10S,10aR)-1,2,4b,5,6,7,8,9,10,10a-Decahydro-2,7-dihydroxy-1-methyl-8-methylene-13-oxo-4a,1-(epoxymethano)-7,9a-methanobenz[a]azulene-10-acetic acid (acetyloxy)methyl ester

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>22</sub> H <sub>26</sub> O <sub>8</sub> ·¼H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	422.94
<b>Physical Appearance:</b>	Off White solid
<b>Solubility:</b>	DMSO to 100 mM ethanol to 100 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.24 (Ethyl acetate:Petroleum ether [4:1])
<b>HPLC:</b>	Shows >91.9% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	
	Carbon Hydrogen Nitrogen
	Theoretical 62.48 6.32
	Found 62.53 6.33

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Gibberellin-analog (GA<sub>3</sub>) chemical dimerizer; induces rapid dimerization of GAls and GID1. GA<sub>3</sub>-AM crosses the plasma membrane, is cleaved by cytosolic esterase releasing GA<sub>3</sub>, which then binds GID1- this complex then in turn forms a complex with GAI; this system works on a timescale of seconds (EC<sub>50</sub> = 310 nM). GA<sub>3</sub> and rapamycin (Cat. No. 1292) chemically inducible dimerization systems are orthogonal. Cell permeable.

**Physical and Chemical Properties:**

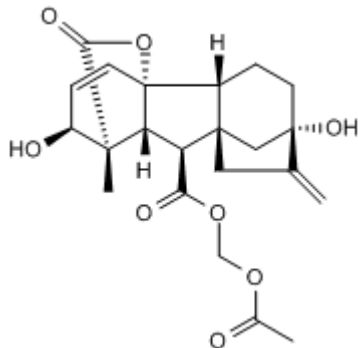
Batch Molecular Formula: C<sub>22</sub>H<sub>26</sub>O<sub>8</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 422.94

Physical Appearance: Off White solid

**Minimum Purity:** >90%

**Batch Molecular Structure:**



**References:**

Lin *et al* (2013) Rapidly reversible manipulation of molecular activities using dual chemical dimerizers *Angew.Chem.Int.Ed.Engl.* **52** 6450. PMID: 23649661.

Miyamoto *et al* (2012) Rapid and orthogonal logic gating with a gibberellin-induced dimerization system *Nat.Chem.Biol.* **8** 465. PMID: 22446836.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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