1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( \text{C}_{22}\text{H}_{36}\text{O}_{3} \cdot \frac{1}{4}\text{H}_{2}\text{O} \)
- **Batch Molecular Weight:** 353.02
- **Physical Appearance:** Beige solid
- **Solubility:**
  - DMSO to 100 mM
  - Ethanol to 50 mM
- **Storage:** Store at -20°C

2. ANALYTICAL DATA

- **HPLC:** Shows 97.1% purity
- **\(^1\text{H NMR:}\)** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  - Carbon: Theoretical 74.85, Found 75.25
  - Hydrogen: Theoretical 10.42, Found 10.77
  - Nitrogen: Theoretical 10.42, Found 10.77
**Product Name:** Anacardic acid  
**Catalog No.:** 3084  
**Batch No.:** 3

**Description:**
Noncompetitive inhibitor of PCAF and p300 histone acetyltransferase (HAT) activity (IC\textsubscript{50} values are ~5.0 and ~8.5 μM respectively). Inhibits NF-κB activation. Also reported to selectively activate Aurora kinase A-mediated phosphorylation of histone H3 and to inhibit protein SUMOylation. Exhibits antitumor, antimicrobial and antioxidant activity.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C\textsubscript{22}H\textsubscript{36}O\textsubscript{2.4}H\textsubscript{2}O
- **Batch Molecular Weight:** 353.02
- **Physical Appearance:** Beige solid
- **Minimum Purity:** >97%

**Storage:** Store at -20°C

**CAUTION -** This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**
- DMSO to 100 mM
- ethanol to 50 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.

**References:**