1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( C_{18}H_{20}O_{5} \)
- **Batch Molecular Weight:** 316.35
- **Physical Appearance:** White crystalline solid
- **Solubility:**
  - Ethanol to 100 mM
  - DMSO to 100 mM
- **Storage:** Desiccate at -20°C

2. ANALYTICAL DATA

- **TLC:** \( R_f = 0.5 \) (Ethyl acetate:Hexane [1:1])
- **Melting Point:** Between 84 - 85°C
- **HPLC:** Shows >99.7% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  - Theoretical: 68.34 6.37
  - Found: 68.3 6.33

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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Combretastatin A4  
Catalog No.: 1495  
Batch No.: 3

CAS Number: 117048-59-6  
IUPAC Name: 2-Methoxy-5-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]phenol

Description:
Antitumor, antiangiogenic and antimetastatic agent, in vitro and in vivo. Inhibits tubulin polymerization.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₈H₂₀O₅
Batch Molecular Weight: 316.35
Physical Appearance: White crystalline solid

Minimum Purity: >99%

Storage: Desiccate 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:
ethanol to 100 mM
DMSO 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.

References:
