1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{23}\text{H}_{28}\text{O}_{8} \)
Batch Molecular Weight: 432.47
Physical Appearance: White solid
Solubility: ethanol to 10 mM
Storage: Desiccate at -20°C

2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
Product Information

Product Name: Salvinorin A  
Catalog No.: 2134  
Batch No.: 6

CAS Number: 83729-01-5

IUPAC Name: (2S,4aR,6aR,7R,9S,10aS,10bR)-9-(Acetyloxy)-2-(3-furanyl)dodecahydro-6a,10b-dimethyl-4,10-dioxo-2H-naphtho[2,1-c]pyran-7-carboxylic acid methyl ester

Description:
Potent naturally occurring non-nitrogenous κ-opioid selective agonist that displays high affinity at both native ($K_i = 4.3 \text{ nM}$) and cloned ($K_i = 16 \text{ nM}$) κ-opioid receptors. Also exhibits allosteric modulation of μ-opioid receptor binding. Reported to be brain-penetrant and displays psychoactive properties.

Physical and Chemical Properties:
Batch Molecular Formula: $C_{23}H_{20}O_8$
Batch Molecular Weight: 432.47
Physical Appearance: White solid

Minimum Purity: >98%

Storage: Desiccate at -20°C

Solubility & Usage Info:
ethanol to 10 mM
This product is unstable in solution. We recommend that solutions of this product are stored at -20°C and used within 24 hours.

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: