1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( C_{23}H_{34}O_4 \cdot 2\frac{1}{2}H_2O \)
   Batch Molecular Weight: 424.05
   Physical Appearance: White solid
   Solubility: DMSO to 100 mM, ethanol to 100 mM
   Storage: Store at +4°C

2. ANALYTICAL DATA

   HPLC: Shows 99.2% purity
   \(^1\)H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis: Carbon Hydrogen Nitrogen
   Theoretical 65.14 9.39
   Found 65.42 9.4
Description:
Na+/K+ ATPase modulator. Inhibits the Normalizes renal Na+/K+ ATPase pump function in mutant adducin- and endogenous ouabain-dependent forms of hypertension. Reduces blood pressure in Milan hypertensive rats. Controls mania-like behaviors in Myshkin mice having a Na+/K+ ATPase α3 subunit mutation. Antagonizes the effects of Ouabain (Cat.No. 1076) on myogenic tone and Ca²⁺ signaling in rat hippocampal neurons.

Physical and Chemical Properties:
Batch Molecular Formula: C₃₃H₄₄O₈.2½H₂O
Batch Molecular Weight: 424.05
Physical Appearance: White solid
Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at +4°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.

References: