1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{22}N_{2}O_{3}$
Batch Molecular Weight: 362.42
Physical Appearance: Off-white solid
Solubility: DMSO to 20 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 72.91 6.12 7.73
Found 72.68 6.06 7.75
**Product Name:** ML SA1  
**Catalog No.:** 4746  
**Batch No.:** 1

**CAS Number:** 332382-54-4  
**IUPAC Name:** 2-[2-(3,4-Dihydro-2,2,4-trimethyl-1(2H)-quinolinyl)-2-oxoethyl]-1H-isoindole-1,3(2H)-dione

**Description:**  
Activator of TRPML channels (TRPML1, 2 and 3); does not activate TRPM2, TRPV2, TRPV3, TRPC6 or TRPA1 channels. Induces TRPML-mediated Ca\(^{2+}\) release from lysosomes; activity corrects trafficking defects and reduces cholesterol accumulation in Niemann-Pick type C macrophages.

**Physical and Chemical Properties:**  
Batch Molecular Formula: \(C_{22}H_{22}N_2O_5\)  
Batch Molecular Weight: 362.42  
Physical Appearance: Off-white solid

**Minimum Purity:** \(\geq 98\%\)

**Storage:** Store at +4°C

**Solubility & Usage Info:**  
DMSO to 20 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:**  