Product Name: PSC 833  
Catalog No.: 4042  
Batch No.: 4

CAS Number: 121584-18-7  
IUPAC Name: 6-[(2S,4R,6E)-4-methyl-2-(methylamino)-3-oxo-6-octenoic acid]-7-L-valine-cyclosporin A

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{63}H_{111}N_{11}O_{12}  
Batch Molecular Weight: 1214.62  
Physical Appearance: White solid  
Solubility: DMSO to 4 mM  
Storage: Store at -20°C  

2. ANALYTICAL DATA

HPLC: Shows 98.9% purity  
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Description:
P-glycoprotein (P-gp) modulator; inhibits P-gp-mediated multidrug-resistance (MDR). Reverses resistance to several cytotoxic drugs including mitoxantrone and doxorubicin (resistance factors are 2.0 and 6.5 respectively) in human MDR cancer cell lines. Non-immunosuppressive analog of cyclosporin A (Cat. No. 1101).

Physical and Chemical Properties:
Batch Molecular Formula: C63H111N11O12
Batch Molecular Weight: 1214.62
Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 4 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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: