Product Name: Ko 143
Catalog No.: 3241
Batch No.: 5
CAS Number: 461054-93-3
IUPAC Name: (3S,6S,12aS)-1,2,3,4,6,7,12,12a-Octahydro-9-methoxy-6-(2-methylpropyl)-1,4-dioxopyrazino[1′,2′:1,6]pyrido[3,4-b]indole-3-propanoic acid 1,1-dimethylethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{26}H_{35}N_{3}O_{5} \cdot \frac{1}{4}H_{2}O
Batch Molecular Weight: 474.07
Physical Appearance: Off White solid
Solubility: DMSO to 50 mM
ethanol to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: R_{f} = 0.6 (Dichloromethane:Ethyl acetate [3:2])
HPLC: Shows 99% purity
{1}H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen
Theoretical 65.87 7.55 8.86
Found 66.01 7.57 8.87
Product Information

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Description:
Potent and selective breast cancer resistance protein multidrug transporter (BCRP) inhibitor (EC50 = 26 nM). Displays > 200-fold selectivity over P-gp and MRP-1 transporters. Increases intracellular drug accumulation and reverses BCRP-mediated multidrug resistance. Inhibits ABCB1 and ABCC1 at higher concentrations. Rapidly metabolized in rat plasma.

Physical and Chemical Properties:
Batch Molecular Formula: C38H59N3O8·0.4H2O
Batch Molecular Weight: 474.07
Physical Appearance: Off White solid
Minimum Purity: >99%

Storage: Store at -20°C
Solubility & Usage Info:
DMSO to 50 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: