Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Ko 143

Catalog No: tcsc0298

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
461054-93-3

Formula:
$C_{26}H_{35}N_3O_5$

Pathway:
Membrane Transporter/Ion Channel

Target:
BCRP

Purity / Grade:
>98%

Solubility:
H2O :

Observed Molecular Weight:
469.57

Product Description

Ko 143 is a practical breast cancer resistance protein multidrug transporter inhibitor **BCRP**, with the **EC_{90}** value of 26 nM.

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IC50 & Target: EC90: 26 nM (BCRP)

In Vitro: Ko143 (10 nM) significantly decreases (2.5-fold) the IC_{50} of MTX for HEK G2 cells and mouse G2 cells. Ko143 (1-100 μM) metabolite does not inhibit the function of ABC Transporters[1]. Reversal of drug resistance in topotecan-selected mouse MEF3.8/T6400 cells and human IGROV1/T8 cells by FTC analogue Ko143. Ko143 is applied at zero, one, or eight times the EC_{90} concentration of 25 nM[2]. Ko143 inhibits BCRP-mediated transport of rosuvastatin in Madin-Darby Canine Kidney (MDCK) 2-BCRP421CC (wild type) cells and MDCK2-BCRP421AA (mutant type) cells[3].

In Vivo: Ko143 (10 mg/kg, p.o.) increases the oral availability of topotecan in mice[2]. Ko143 significantly affects the pharmacokinetics of rosuvastatin in rats[3].