

Ko-143, BCRP inhibitor

Catalog	Unit
TBI1074-5MG	5 mg
TBI1074-25MG	25 mg

Product Details

Formal 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

Molecular Formula: C₂₆H₃₆N₃O₅

Formula Weight: 470.59

CAS Number: 461054-93-3

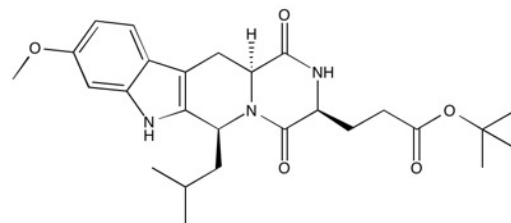
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 50 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

BCRP inhibitor

Functions

A potent and selective inhibitor of the breast cancer resistance protein multidrug transporter (BCRP/ABCG2). Reverses resistance of MTX and topotecan at 25 nM in human and mouse cell lines. Also inhibits ABCB1 and ABCC1 at concentrations >1 μM. Restores the sensitivity of triple negative breast cancer cells to photodynamic therapy. Prevents the export of the FAAH inhibitor URB937 from the CNS. Forces prostate stem cells to undergo and AR-modulated differentiation to an androgen deprivation therapy-sensitive luminal phenotype. Active in vivo.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.