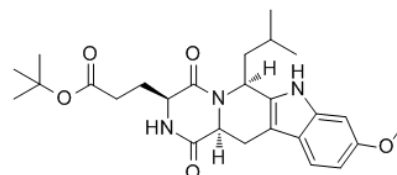


**Product Name** : Ko143  
**Cat. No.** : PC-42054  
**CAS No.** : 461054-93-3  
**Molecular Formula** : C<sub>26</sub>H<sub>35</sub>N<sub>3</sub>O<sub>5</sub>  
**Molecular Weight** : 469.5732  
**Target** : BCRP  
**Solubility** : 10 mM in DMSO



## Biological Activity

Ko143 is a nontoxic analog of fungal toxin fumitremorgin C and potent, orally bioavailable inhibitor of **BCRP (ABCG2)** with EC<sub>90</sub> of 26 nM.

Ko143 shows low activity against P-gp, MRP1 and other known drug transporter.

Ko143 has an effect on the transport activity of both ABCB1 and ABCC1 at >1 uM.

Ko143 reverses Bcrp-mediated drug resistance and markedly increases the oral availability of topotecan in mice.

## References

Allen JD, et al. *Mol Cancer Ther.* 2002 Apr;1(6):417-25.

Weidner LD, et al. *J Pharmacol Exp Ther.* 2015 Sep;354(3):384-93.

Ozvegy-Laczka C, et al. *J Biol Chem.* 2005 Feb 11;280(6):4219-27.

Elkind NB, et al. *Cancer Res.* 2005 Mar 1;65(5):1770-7.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com