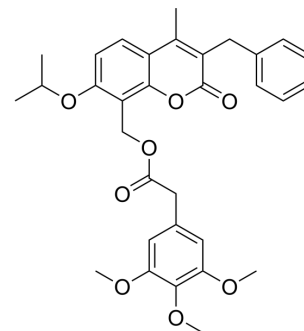


P-gp inhibitor 13

Cat. No.:	HY-149981
Molecular Formula:	C ₃₂ H ₃₄ O ₈
Molecular Weight:	546.61
Target:	P-glycoprotein
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	P-gp inhibitor 13 is a P-gp inhibitor. P-gp inhibitor 13 can reverse P-glycoprotein-mediated paclitaxel resistance in A2780/T cell. P-gp inhibitor 13 can be used for the research of advanced acute myeloid leukemia ^[1] .
In Vitro	<p>P-gp inhibitor 13 (Compound 27f) shows a remarkable chemo-sensitization in A2780/T cells with an IC₅₀ value of 0.010 μM^[1]. P-gp inhibitor 13 is effective to increase the accumulation of paclitaxel and Rhodamine 123 via inhibiting P-gp for reversing multidrug-resistance^[1].</p> <p>P-gp inhibitor 13 hardly has relevant cardiac toxicity^[1].</p> <p>P-gp inhibitor 13 (2.5 μM, 5 μM, 10 μM, 20 μM) demonstrates concentration-dependent MDR reversal activities in A2780/T cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Wang W, et al. Design, synthesis and biological evaluation of seco-DSP/DCK derivatives reversing P-glycoprotein-mediated paclitaxel resistance in A2780/T cells. Eur J Med Chem. 2023;250:115218.

Caution: Product has not been fully validated for medical applications. For research use only.

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