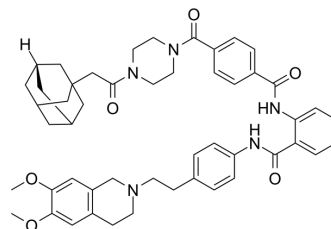


## PID-9

Cat. No.:	HY-162369
Molecular Formula:	C <sub>50</sub> H <sub>57</sub> N <sub>5</sub> O <sub>6</sub>
Molecular Weight:	824.02
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	PID-9 is a P-glycoprotein inhibitor. PID-9 has multidrug resistance (MDR) reversal activity (IC <sub>50</sub> = 0.1338 μM) and low toxicity. PID-9 inhibits the transport function of P-gp without downregulating P-gp expression <sup>[1]</sup> .
In Vitro	PID-9 (2.5 μM) increases the intracellular accumulation of Doxorubicin (HY-15142) (10 μM) in the drug-resistant SW620/AD300 cells, and increases Doxorubicin-induced apoptosis <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Cao F, et al. Synthesis and evaluation of WK-X-34 derivatives as P-glycoprotein (P-gp/ABCB1) inhibitors for reversing multidrug resistance. RSC Med Chem. 2023 Dec 7;15(2):506-518.

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

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