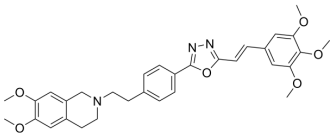
P-gp/BCRP-IN-2

Cat. No.:	HY-155152
Molecular Formula:	$C_{32}H_{35}N_3O_6$
Molecular Weight:	557.64
Target:	P-glycoprotein; BCRP
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	P-gp/BCRP-IN-2 (compound 15) is an oxadiazole derivative and a dual inhibitor of the ABC transporter P-glycoprotein (IC_{50}: 1.6 nM) and BCRP (IC_{50}: 600 nM). P-gp/BCRP-IN-2 also enhances the anti-proliferative effects of Doxorubicin (HY-15142A) in drug-resistant human adenocarcinoma colon cancer cell lines HT29/DX and MDCK-MDR1 cells[1].
IC_{50} & Target	IC50: 1.6 nM (P-glycoprotein), 600 nM (BCRP)[1]

REFERENCES

[1]. Braconi L, et al. Tetrazole and oxadiazole derivatives as bioisosteres of tariquidar and elacridar: New potent P-gp modulators acting as MDR reversers. Eur J Med Chem. 2023 Nov 5;259:115716..

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