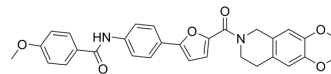


P-gb-IN-1

Cat. No.:	HY-149360
CAS No.:	2632874-49-6
Molecular Formula:	C ₃₀ H ₂₈ N ₂ O ₆
Molecular Weight:	512.55
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-gb-IN-1 (compound **8**), a 2,5-disubstituted furan derivative, is a highly effective, broadspectrum P-glycoprotein (P-gp) inhibitor. P-gb-IN-1 displayed the reversal activity by inhibiting P-gp efflux. P-gb-IN-1 has a potent affinity to P-gp by forming H-bond interactions with residues Asn 721 and Met 986. P-gb-IN-1 possesses broad-spectrum reversal activity and low toxicity in MCF-7/ADR cells^[1].

REFERENCES

[1]. Zhikun Yang, et al. Discovery of 2,5-disubstituted furan derivatives featuring a benzamide motif for overcoming P-glycoprotein mediated multidrug resistance in MCF-7/ADR cell. *Eur J Med Chem.* 2023 Sep 5;257:115462.

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

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