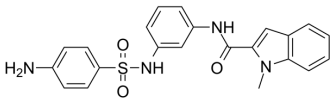
PHGDH-IN-2

Cat. No.:	HY-145860
Molecular Formula:	$C_{22}H_{20}N_4O_3S$
Molecular Weight:	420.48
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PHGDH-IN-2 is a potent and NAD^+ competitive PHGDH inhibitor with an IC_{50} of 5.2 μM. PHGDH-IN-2 inhibits the serine synthetic pathway in MDA-MB-468 cells. PHGDH-IN-2 inhibits the growth of PHGDH-dependent cancer cells[1].
IC_{50} & Target	PHGDH[1]
In Vitro	PHGDH-IN-2 (compound C25) (10, 30 μM) inhibits the serine synthetic pathway in MDA-MB-468 cells[1]. PHGDH-IN-2 (72 h) inhibits the growth of PHGDH-dependent cancer cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	MDA-MB-468, NCI-H1975, HCC827, PC-9, ZR-75–1, MDA-MB-231 cells
Concentration:	
Incubation Time:	72 h
Result:	Inhibited the growth of PHGDH-dependent cancer cells.

REFERENCES

[1]. Zhang FM,et al. Discovery of PHGDH inhibitors by virtual screening and preliminary structure-activity relationship study. Bioorg Chem. 2022, 121:105705.

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