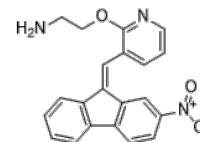


Product Name : CYD-4-61
Cat. No. : PC-27545
CAS No. : 1425944-33-7
Molecular Formula : C₂₁H₁₇N₃O₃
Molecular Weight : 359.39
Target : Bcl-2
Solubility : 10 mM in DMSO



Biological Activity

CYD-4-61 is a small molecule **Bax activator**, exhibits potent antiproliferative activity with IC₅₀ of 0.07 uM against triple-negative breast cancer MDA-MB-231 and 0.06 uM against ER-positive breast cancer MCF-7 cell lines, respectively.

CYD-4-61 (1 uM) inhibits colony formation and induces apoptosis induction in breast cancer cells.

CYD-4-61 causes induction of active Bax protein to trigger the intrinsic apoptotic signaling pathway.

CYD-4-61 significantly suppressed breast cancer xenograft tumor growth in vivo.

CYD-4-61 potently inhibits tumor cell proliferation, induces apoptosis, and suppresses cancer stem cell-like properties, with enhanced activity in radiation-resistant gastric adenocarcinoma (GAC) cells.

References

Liu G, et al. *Eur J Med Chem.* 2019 Sep 15;178:589-605.

Zou G, et al. *Cancer Lett.* 2026 Aug 7:218777.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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