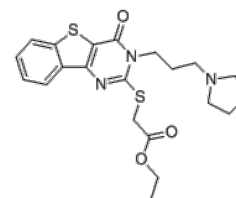


Product Name : ALDH1A1 inhibitor CM37
Cat. No. : PC-49239
CAS No. : 896795-60-1
Molecular Formula : C₂₁H₂₅N₃O₃S₂
Molecular Weight : 431.569
Target : Aldehyde Dehydrogenase (ALDH)
Solubility : 10 mM in DMSO



Biological Activity

ALDH1A1 inhibitor CM37 is a selective and competitive inhibitor of **ALDH1A1** with K_i of 300 nM, shows minimal inhibitory effects for ALDH1A2, ALDH1A3, ALDH2, or ALDH3A1 at 20 μ M.

CM37 reduced ovarian cancer cell proliferation as spheroids under low attachment growth conditions and the expression of stemness-associated markers (OCT4 and SOX2) in ALDH+ cells fluorescence-activated cell sorting (FACS)-sorted from cell lines and malignant OC ascites.

CM37 promoted DNA damage in OC cells, as evidenced by induction of γ H2AX.

CM37 augmented intracellular ROS accumulation, which in turn led to increased DNA damage and reduced OC cell viability.

References

Condello S., et al. *Oncogene*. 2015;34:2297–2308.

Nkechiyere G Nwani, et al. *Cancers (Basel)*. 2019 Apr 8;11(4):502.

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

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