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Data Sheet

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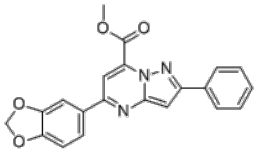
Product Name : MCI-INI-3
Cat. No. : PC-72799
CAS No. : 1011366-31-6
Molecular Formula : $C_{21}H_{15}N_3O_4$
Molecular Weight : 373.368
Target : Aldehyde Dehydrogenase (ALDH)
Solubility : 10 mM in DMSO



Biological Activity

MCI-INI-3 is a potent, selective, competitive inhibitor of **ALDH1A3** (Ki=0.55 uM), shows poor inhibitory effect on the structurally related isoform ALDH1A1 (>140-fold selectivity).
MCI-INI-3 also displays on inhibition against six isoforms of ALDH (ALDH16A1, ALDH7A1, ALDH9A1, ALDH2, ALDH1B1, ALDH18A1).
MCI-INI-3 demonstrates selective binding to ALDH1A3 in glioma stem cell lysates, inhibits ALDH activity and affects RA synthesis in cells.

References

Jianfeng Li, et al. ***Commun Biol.*** 2021 Dec 21;4(1):1420.

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

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