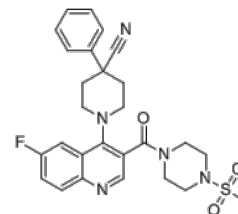


Product Name : NCT-505 free base
Cat. No. : PC-35950
CAS No. : 2231079-74-4
Molecular Formula : C₂₇H₂₈FN₅O₃S
Molecular Weight : 521.611
Target : Aldehyde Dehydrogenase (ALDH)
Solubility : 10 mM in DMSO



Biological Activity

NCT-505 free base (NCT505) is a potent, selective, orally available **ALDH1A1** inhibitor with IC₅₀ of 7 nM (hALDH1A1), exhibits high specificity over other ALDH isozymes and unrelated dehydrogenases.

NCT-505 also exhibits IC₅₀ of 30 nM in MIA PaCa-2 Aldefluor cell-based assays.

NCT-505 demonstrates target engagement in CETSA assay (EC₅₀=3.4 μM), inhibits the formation of 3D spheroid cultures of OV-90 cancer cells, and potentiates the cytotoxicity of Paclitaxel in SKOV-3-TR, a Paclitaxel resistant ovarian cancer cell line.

References

Yang SM, et al. *J Med Chem.* 2018 Jun 14;61(11):4883-4903.

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

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