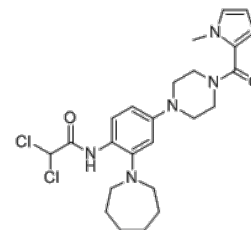


Product Name : ALDH1A1 inhibitor N42
Cat. No. : PC-20201
CAS No. : 2445840-25-3
Molecular Formula : C₂₄H₃₁Cl₂N₅O₂
Molecular Weight : 492.45
Target : Aldehyde Dehydrogenase (ALDH)
Solubility : 10 mM in DMSO



Biological Activity

ALDH1A1 inhibitor N42 (FSI-TN42) is a potent, specific and orally bioavailable **ALDH1A1** inhibitor with IC₅₀ of 23 nM, 800-fold selectivity over ALDH1A2 (IC₅₀=18 uM).

N42 strongly and irreversibly binds to ALDH1A1.

N42 (10-100 mg/kg) causes retinoic acid (RA) synthesis inhibition in vivo.

N42 affects retinoid storage and metabolism in a tissue-dependent manner, and protects against diet-induced obesity in vivo.

References

Haenisch M, et al. *Int J Obes (Lond)*. 2021 Jul;45(7):1542-1552.

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

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