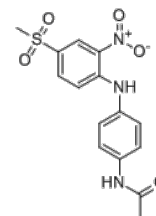

Product Name	: ALD1A3 inhibitor CB29
Cat. No.	: PC-20206
CAS No.	: 315239-63-5
Molecular Formula	: C ₁₅ H ₁₅ N ₃ O ₅ S
Molecular Weight	: 349.36
Target	: Aldehyde Dehydrogenase (ALDH)
Solubility	: 10 mM in DMSO



Biological Activity

ALD1A3 inhibitor CB29 is a selective small molecule inhibitor of **ALDH3A1** with IC₅₀ of 16 μM, and K_i value of 4.7 μM. ALD1A3 inhibitor CB29 binds competitively to the aldehyde binding site. ALD1A3 inhibitor CB29 exhibits good selectivity toward ALDH3A1, demonstrates no inhibition (<5%) toward ALDH1A1, ALDH1A2, ALDH1A3, ALDH1B1 or ALDH2 up to 250 μM. ALD1A3 inhibitor CB29 can inhibit the activity of ALDH3A1 in tumor whole cell lysates. ALD1A3 inhibitor CB29 is a chemical tool to delineate the role of ALDH3A1 in numerous metabolic pathway.

References

Bibek Parajuli, et al. *Chembiochem*. 2014 Mar 21;15(5):701-12.

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

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