ALDH1A3-IN-2

Cat. No.:	HY-144669				
CAS No.:	886502-08-	5			
Molecular Formula:	C ₁₃ H ₁₇ NO				
Molecular Weight:	203.28				
Target:	Aldehyde Dehydrogenase (ALDH)				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Pure form	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	1 mM	4.9193 mL	24.5966 mL	49.1932 mL			
		5 mM	0.9839 mL	4.9193 mL	9.8386 mL		
		10 mM	0.4919 mL	2.4597 mL	4.9193 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
Vivo		one by one: 10% DMSO >> 40% PEC g/mL (12.30 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline			
Solubility: ≥ 2.5 m 3. Add each solvent		solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) γ:≥2.5 mg/mL (12.30 mM); Clear solution					
	one by one: 10% DMSO >> 90% corn oil ng/mL (12.30 mM); Clear solution						

BIOLOGICAL ACTIVITY					
DIDEOGICAL ACTIVITY					
Description	ALDH1A3-IN-2 (Compound 15) is a potent inhibitor of ALDH1A3 with an IC ₅₀ of 1.29 μM. Aldehyde dehydrogenases (ALDHs) are overexpressed in various tumor types including prostate cancer. ALDH1A3-IN-2 has the potential for the research of cancer diseases ^[1] .				
IC ₅₀ & Target	ALDH1				

0



REFERENCES

[1]. Ibrahim AIM, et al. Expansion of the 4-(Diethylamino)benzaldehyde Scaffold to Explore the Impact on Aldehyde Dehydrogenase Activity and Antiproliferative Activity in Prostate Cancer. J Med Chem. 2022 Mar 10;65(5):3833-3848.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA