GNE-140 racemate

Cat. No.:	HY-100742				
CAS No.:	1802977-61	2			
Molecular Formula:	C ₂₅ H ₂₃ ClN ₂ C) ₃ S ₂			
Molecular Weight:	499				
Target:	Lactate Dehydrogenase				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	Preparing Stock Solutions	1 mM	2.0040 mL	10.0200 mL	20.0401 mL
	5 mM	0.4008 mL	2.0040 mL	4.0080 mL	
	10 mM	0.2004 mL	1.0020 mL	2.0040 mL	

Diological				
Description	GNE-140 racemate is a racemate mixture of (R)-GNE-140 and (S)-GNE-140. GNE-140 racemate is a potent lactate dehydrogenase A (LDHA) inhibitor ^{[1][2]} .			
IC ₅₀ & Target	Lactate dehydrogenase A (LDHA) ^[1]			
In Vitro	Increased glucose consumption distinguishes cancer cells from normal cells and is known as the "Warburg effect" because of increased glycolysis. Lactate dehydrogenase A (LDHA) is a key glycolytic enzyme, a hallmark of aggressive cancers, and believed to be the major enzyme responsible for pyruvate-to-lactate conversion ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

CUSTOMER VALIDATION

• Nat Commun. 2023 Jul 14;14(1):4129.

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- Cell Mol Life Sci. 2019 Apr;76(8):1579-1593.
- Biochim Biophys Acta Mol Basis Dis. 2022 Sep 20;166550.
- Am J Physiol Heart Circ Physiol. 2021 Apr 9.

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REFERENCES

[1]. Purkey HE, et al. Cell Active Hydroxylactam Inhibitors of Human Lactate Dehydrogenase with Oral Bioavailability in Mice. ACS Med Chem Lett. 2016 Aug 26;7(10):896-901.

[2]. Ždralević M, et al. Double genetic disruption of lactate dehydrogenases A and B is required to ablate the "Warburg effect" restricting tumor growth to oxidative metabolism. J Biol Chem. 2018 Oct 12;293(41):15947-15961.

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

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