

ALDH

Cat. No.:	HY-P2947	
CAS No.:	9028-88-0	
Target:	Aldehyde Dehydrogenase (ALDH)	
Pathway:	Metabolic Enzyme/Protease	Aldehyde dehydrogenase (NAD(P))
Storage:	Powder -20°C 3 years	
	In solvent -80°C 6 months	
	-20°C 1 month	

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : ≥ 20 mg/mL * "≥" means soluble, but saturation unknown.
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BIOLOGICAL ACTIVITY

Description	ALDH (Aldehyde dehydrogenase (NAD(P))) catalyzes the oxidation of aldehydes into their corresponding carboxylic acids with the concomitant reduction of the cofactor NAD(P) into NAD(P)H, is often used in biochemical studies. The ALDHs are one of many enzyme systems the body utilizes to alleviate aldehyde stress ^[1] .
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In Vitro	<p>Purpose:</p> <ol style="list-style-type: none">1. Disease diagnosis: can be used to quantify acetaldehyde in blood.2. Development of anti-hangover products: Acetaldehyde dehydrogenase and alcohol dehydrogenase can be used together to make up for the lack of enzymes in the human body and reduce the harm of alcohol to the body. <p>Molecular Weight: 58 kDa. Purity: >95%(by SDS-PAGE). MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
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REFERENCES

[1]. Hayes K, et al. The quaternary structure of *Thermus thermophilus* aldehyde dehydrogenase is stabilized by an evolutionary distinct C-terminal arm extension. *Sci Rep.* 2018 Sep 6;8(1):13327.

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

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