Product Data Sheet

α-Isopropylmalate

Cat. No.: HY-N9960 CAS No.: 3237-44-3 Molecular Formula: C₇H₁₂O₅ Molecular Weight: 176.17 Target: Others Pathway: Others

Storage: 4°C, sealed storage, away from moisture

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

 $H_2O: \ge 250 \text{ mg/mL} (1419.08 \text{ mM})$

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	5.6763 mL	28.3817 mL	56.7634 mL
	5 mM	1.1353 mL	5.6763 mL	11.3527 mL
	10 mM	0.5676 mL	2.8382 mL	5.6763 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	$\alpha\text{-Isopropylmalate}\ (\alpha\text{-IPM})$ is the leucine biosynthetic precursor in Yeast $^{[1]}.$	
In Vitro	α -Isopropylmalate (500 μ M) increases LEU3 protein (Leu3p)-dependent transcription ^[1] . α -Isopropylmalate (10 mM, 48 h) increases reporter gene expression in preadipocytes (30A5) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Sze JY, et al. In vitro transcriptional activation by a metabolic intermediate: activation by Leu3 depends on alpha-isopropylmalate. Science. 1992 Nov 13;258(5085):1143-5.

[2]. Guo H, et al. Regulation of transcription in mammalian cells by yeast Leu3p and externally supplied inducer. FEBS Lett. 1996 Jul 22;390(2):191-5.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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