



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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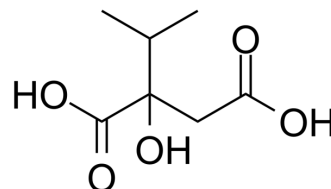
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## α-Isopropylmalate

Cat. No.:	HY-N9960
CAS No.:	3237-44-3
Molecular Formula:	C <sub>7</sub> H <sub>12</sub> O <sub>5</sub>
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<sub>2</sub>O : ≥ 250 mg/mL (1419.08 mM)  
\* "≥" means soluble, but saturation unknown.

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

α-Isopropylmalate (α-IPM) is the leucine biosynthetic precursor in Yeast<sup>[1]</sup>.

#### In Vitro

α-Isopropylmalate (500 μM) increases LEU3 protein (Leu3p)-dependent transcription<sup>[1]</sup>.  
α-Isopropylmalate (10 mM, 48 h) increases reporter gene expression in preadipocytes (30A5)<sup>[2]</sup>.  
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.

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

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