



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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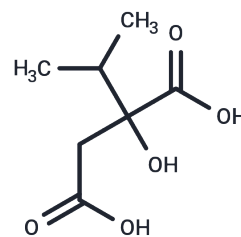
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2-Isopropylmalic acid

Chemical Properties

CAS No. :	3237-44-3
Formula:	C ₇ H ₁₂ O ₅
Molecular Weight:	176.17
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	2-Isopropylmalic acid (α-Isopropylmalate) inhibits excess reactive oxygen species (ROS) production and stress kinase activation in PM2. 5-treated dermal fibroblasts, promotes primary ciliogenesis and restores PM2. 5-induced primary ciliogenesis hypoplasia in dermal fibroblasts.
Targets(IC50)	Others
In vitro	500 μM 2-Isopropylmalic acid promoted LEU3 protein (Leu3p)-dependent transcriptional activity.[1] In preadipocytes (30A5), 10 mM 2-Isopropylmalic acid elevated the expression level of the reporter gene after 48 hours of action. [2]

Solubility Information

Solubility	H ₂ O: 200 mg/mL (1135.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.1135 mL	0.5676 mL	1.1353 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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