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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

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

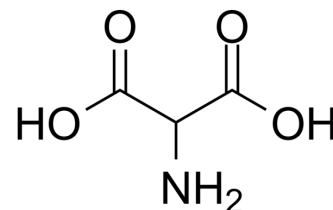
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Aminomalonic acid

Cat. No.:	HY-112052		
CAS No.:	1068-84-4		
Molecular Formula:	C ₃ H ₅ NO ₄		
Molecular Weight:	119.08		
Target:	Endogenous Metabolite		
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

In Vitro	H ₂ O : 8.33 mg/mL (69.95 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		8.3977 mL	41.9886 mL	83.9772 mL
		5 mM		1.6795 mL	8.3977 mL	16.7954 mL
		10 mM		0.8398 mL	4.1989 mL	8.3977 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS					
	Solubility: 5 mg/mL (41.99 mM); Clear solution; Need ultrasonic and warming and heat to 60°C					

BIOLOGICAL ACTIVITY

Description	Aminomalonic acid is an amino endogenous metabolite, acts as a strong inhibitor of L-asparagine synthetase from Leukemia 5178Y/AR (K _i = 0.0023 M) and mouse pancreas (K _i = 0.0015 M) in vitro. Aminomalonic acid is a potential biomarker to discriminate between different stages of melanoma metastasis ^{[1][2][3]} .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

- [1]. Van Buskirk JJ, et al. Aminomalonic acid: identification in Escherichia coli and atherosclerotic plaque. Proc Natl Acad Sci U S A. 1984 Feb;81(3):722-5.
- [2]. Milman HA, et al. Aminomalonic acid and its congeners as potential in vivo inhibitors of L-asparagine synthetase. Enzyme. 1979;24(1):36-47.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA