



# 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

Quellenstraße 110, A-1100 Wien

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

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

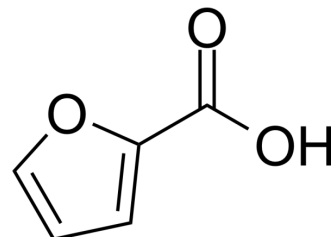
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## 2-Furoic acid

<b>Cat. No.:</b>	HY-W012946		
<b>CAS No.:</b>	88-14-2		
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>4</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	112.08		
<b>Target:</b>	ATP Citrate Lyase; Acyltransferase; Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (892.22 mM)

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration	Mass	Mass	Mass
1 mM		8.9222 mL	44.6110 mL	89.2220 mL
5 mM		1.7844 mL	8.9222 mL	17.8444 mL
10 mM		0.8922 mL	4.4611 mL	8.9222 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (22.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (22.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (22.31 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

2-Furoic acid (Furan-2-carboxylic acid) is an organic compound produced through furfural oxidation<sup>[1]</sup>. 2-Furoic acid exhibits hypolipidemic effect, lowers both serum cholesterol and serum triglyceride levels in rats<sup>[2]</sup>.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

#### In Vivo

2-Furoic acid significantly reduces serum cholesterol and serum triglyceride levels<sup>[2]</sup>.

---

2-Furoic acid also lowers the liver and small intestine ATP dependent citrate lyase, acetyl CoA synthetase, acyl CoA cholesterol acyl transferase, sn-glycerol 3-phosphate acyl transferase, phosphatidylate phosphohydrolase and heparin induced lipoprotein lipase activities<sup>[2]</sup>.

2-Furoic acid shows the LD<sub>50</sub> of 250 mg/kg i.p. in the acute toxicity studies in mice<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

---

## REFERENCES

---

[1]. Wordofa GG, et al. Tolerance and metabolic response of *Pseudomonas taiwanensis* VLB120 towards biomass hydrolysate-derived inhibitors. *Biotechnol Biofuels*. 2018 Jul 19;11:199.

[2]. Hall IH, et al. The hypolipidemic effects of 2-furoic acid in Sprague-Dawley rats. *Arch Pharm (Weinheim)*. 1993 Jan;326(1):15-23.

---

**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](mailto:tech@MedChemExpress.com)

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