



# 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

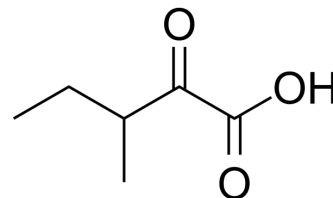
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## 3-Methyl-2-oxovaleric acid

|                    |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-113063                                                                                          |
| CAS No.:           | 1460-34-0                                                                                          |
| Molecular Formula: | C <sub>6</sub> H <sub>10</sub> O <sub>3</sub>                                                      |
| Molecular Weight:  | 130.14                                                                                             |
| Target:            | Endogenous Metabolite                                                                              |
| Pathway:           | Metabolic Enzyme/Protease                                                                          |
| Storage:           | Powder    -20°C    3 years<br>4°C    2 years<br>In solvent   -80°C    6 months<br>-20°C    1 month |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 130 mg/mL (998.92 mM; Need ultrasonic)  
 H<sub>2</sub>O : ≥ 100 mg/mL (768.40 mM)  
 \* "≥" means soluble, but saturation unknown.

|                              | Solvent<br>Concentration | Mass | 1 mg      | 5 mg       | 10 mg      |
|------------------------------|--------------------------|------|-----------|------------|------------|
|                              |                          |      |           |            |            |
| Preparing<br>Stock Solutions | 1 mM                     |      | 7.6840 mL | 38.4202 mL | 76.8403 mL |
|                              | 5 mM                     |      | 1.5368 mL | 7.6840 mL  | 15.3681 mL |
|                              | 10 mM                    |      | 0.7684 mL | 3.8420 mL  | 7.6840 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: ≥ 2.08 mg/mL (15.98 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (15.98 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (15.98 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

3-Methyl-2-oxovaleric acid is a neurotoxin, an acidogen, and a metabotoxin, and also an abnormal metabolite that arises from the incomplete breakdown of branched-chain amino acids.

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

Human Endogenous Metabolite

---

## REFERENCES

[1]. Ghoochani BFN, et, al. Metabolomics diagnostic approach to mustard airway diseases: a preliminary study. Iran J Basic Med Sci. 2018 Jan;21(1):59-69.

---

**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