



# 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

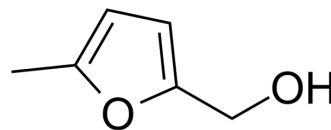
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## 5-Methyl-2-furanmethanol

|                           |  |       |          |
|---------------------------|--|-------|----------|
| <b>Cat. No.:</b>          | HY-W087919                                   |       |          |
| <b>CAS No.:</b>           | 3857-25-8                                    |       |          |
| <b>Molecular Formula:</b> | C <sub>6</sub> H <sub>8</sub> O <sub>2</sub> |       |          |
| <b>Molecular Weight:</b>  | 112.13                                       |       |          |
| <b>Target:</b>            | Others                                       |       |          |
| <b>Pathway:</b>           | Others                                       |       |          |
| <b>Storage:</b>           | Pure form                                    | -20°C | 3 years  |
|                           |  | 4°C   | 2 years  |
|                           | In solvent                                   | -80°C | 6 months |
|                           |  | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (891.82 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Concentration | Mass      |            |            |
|---------------------------|-----------------------|-----------|------------|------------|
|                           |                       | 1 mg      | 5 mg       | 10 mg      |
|                           | 1 mM                  | 8.9182 mL | 44.5911 mL | 89.1822 mL |
|                           | 5 mM                  | 1.7836 mL | 8.9182 mL  | 17.8364 mL |
|                           | 10 mM                 | 0.8918 mL | 4.4591 mL  | 8.9182 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 (22.30 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (22.30 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (22.30 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

5-Methyl-2-furanmethanol is a natural product that can be isolated from the essential oil of *D. rupicola* Biv.. 5-Methyl-2-furanmethanol also acts as a oxidative product of 2,5 dimethylfuran (DMF) by cytochrome P450 (CYP)<sup>[1][2]</sup>.

### REFERENCES

- [1]. Simona Casiglia, et al. Volatile constituents of *Dianthus rupicola* Biv. from Sicily: activity against microorganisms affecting cellulosic objects. *Nat Prod Res.*

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2014;28(20):1739-46.

[2]. Anja Hortemo Høie, et al. Genotoxicity of three food processing contaminants in transgenic mice expressing human sulfotransferases 1A1 and 1A2 as assessed by the in vivo alkaline single cell gel electrophoresis assay. Environ Mol Mutagen. 2015 Oct; 56(8): 709-714.

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**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