



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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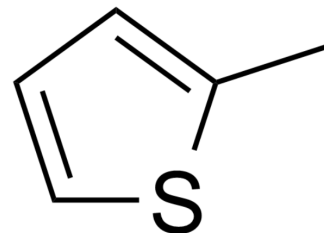
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## 2-Methylthiophene

Cat. No.:	HY-W010615
CAS No.:	554-14-3
Molecular Formula:	C <sub>5</sub> H <sub>6</sub> S
Molecular Weight:	98.16
Target:	Others
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (1018.74 mM; Need ultrasonic)																							
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>10.1874 mL</td> <td>50.9372 mL</td> <td>101.8745 mL</td> </tr> <tr> <td>5 mM</td> <td>2.0375 mL</td> <td>10.1874 mL</td> <td>20.3749 mL</td> </tr> <tr> <td>10 mM</td> <td>1.0187 mL</td> <td>5.0937 mL</td> <td>10.1874 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	1 mM	10.1874 mL	50.9372 mL	101.8745 mL	5 mM	2.0375 mL	10.1874 mL	20.3749 mL	10 mM	1.0187 mL	5.0937 mL	10.1874 mL			
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Please refer to the solubility information to select the appropriate solvent.																								
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (25.47 mM); Clear solution																							
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (25.47 mM); Clear solution																							
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (25.47 mM); Clear solution																							

### BIOLOGICAL ACTIVITY

Description	4-Methylthiophene is an intermediate used in the synthesis of the aromatic sulfur compounds <sup>[1]</sup> .
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### REFERENCES

[1]. Marta Królikowska, et al. Effect of Cation Structure in Quinolinium-Based Ionic Liquids on the Solubility in Aromatic Sulfur Compounds or Heptane: Thermodynamic Study on Phase Diagrams. *Molecules*

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

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