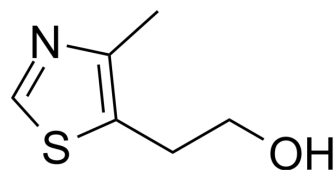


## 4-Methyl-5-thiazoleethanol

<b>Cat. No.:</b>	HY-W015695		
<b>CAS No.:</b>	137-00-8		
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>9</sub> NOS		
<b>Molecular Weight:</b>	143		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<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

<b>In Vitro</b>	DMSO : 100 mg/mL (699.30 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	6.9930 mL	34.9650 mL	69.9301 mL
		5 mM	1.3986 mL	6.9930 mL	13.9860 mL
10 mM		0.6993 mL	3.4965 mL	6.9930 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (17.48 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (17.48 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (17.48 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	4-Methyl-5-thiazoleethanol, a natural sulfur-containing flavor compound, is a thiazole precursor <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Microbial Metabolite

### REFERENCES

---

[1]. Ming Yin, et al. Characterization of the Key Aroma Compounds in Dog Foods by Gas Chromatography-Mass Spectrometry, Acceptance Test, and Preference Test. J Agric Food Chem. 2020 Aug 26;68(34):9195-9204.

[2]. Ryan W Paerl, et al. Use of plankton-derived vitamin B1 precursors, especially thiazole-related precursor, by key marine picoeukaryotic phytoplankton. ISME J. 2017 Mar;11(3):753-765.

---

**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