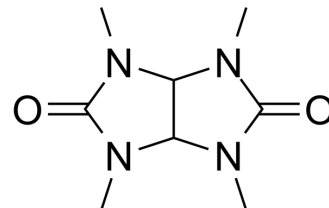


## Temgicoluril

Cat. No.:	HY-139584
CAS No.:	10095-06-4
Molecular Formula:	C <sub>8</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	198.22
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (630.61 mM; Need ultrasonic)  
H<sub>2</sub>O : 100 mg/mL (504.49 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.0449 mL	25.2245 mL	50.4490 mL
	5 mM	1.0090 mL	5.0449 mL	10.0898 mL
	10 mM	0.5045 mL	2.5224 mL	5.0449 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (504.49 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (10.49 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (10.49 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (10.49 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Tetramethylglycerol (Tetramethylglycoluril) is a small molecule that acts on GABA Receptor, with anti-anxiety activity<sup>[1]</sup>.

### REFERENCES

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[1]. Val'dman AV, Zaikonnikova IV, Kozlovskaia MM, Zimakova IE. Izuchenie osobennostei spektra psikhotropnogo deistviia mebikara [Characteristics of the psychotropic spectrum of action of mebicar]. Biull Eksp Biol Med. 1980 May;89(5):568-70. Russian.

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

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