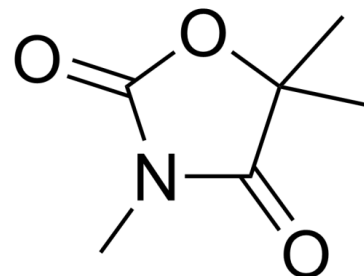


## Data Sheet

<b>Product Name:</b>	Trimethadione
<b>Cat. No.:</b>	CS-4339
<b>CAS No.:</b>	127-48-0
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>9</sub> NO <sub>3</sub>
<b>Molecular Weight:</b>	143.142
<b>Target:</b>	Calcium Channel
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling
<b>Solubility:</b>	DMSO : ≥ 40 mg/mL



### BIOLOGICAL ACTIVITY:

Trimethadione (3,5,5,-Trimethyloxazolidine-2,4-dione) is an oxazolidinedione anticonvulsant agent widely used against absences seizures. Trimethadione also is a T-type **calcium channel** blocker which has antihyperalgesic effects<sup>[1][2]</sup>.

### References:

[1]. Pastore V, et, al. Synthesis and anticonvulsant activity of bioisosteres of trimethadione, N-derivative-1,2,3-oxathiazolidine-4-one-2,2-dioxides from α-hydroxyamides. Bioorg Med Chem. 2013 Feb 15;21(4):841-6.

[2]. Barton ME, et, al. The antihyperalgesic effects of the T-type calcium channel blockers ethosuximide, trimethadione, and mibefradil. Eur J Pharmacol. 2005 Oct 3;521(1-3):79-85.

### CAIndexNames:

2,4-Oxazolidinedione, 3,5,5-trimethyl-

### SMILES:

O=C(N1C)OC(C)(C)C1=O

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

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