PRODUCT INFORMATION



Trimethadione

Item No. 23893

CAS Registry No.:	127-48-0
Formal Name:	3,5,5-trimethyl-2,4-oxazolidinedione
Synonyms:	NSC 15799, NSC 169503
MF:	$C_6H_9NO_3$
FW:	143.1
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.	

Laboratory Procedures

Trimethadione is supplied as a solid. A stock solution may be made by dissolving the trimethadione in the solvent of choice, which should be purged with an inert gas. Trimethadione is slightly soluble in chloroform and methanol.

Description

Trimethadione is an anticonvulsant.^{1,2} It decreases the levels of α -oxoglutarate, malate, and fumarate in the brain as well as plasma glucose levels in rats.¹ Trimethadione increases latency to first pentetrazole-induced clonic seizure in mice (ED₅₀ = 10 mg/kg).² It also inhibits absence-like seizures but not tonic convulsions in spontaneously epileptic rats.

References

- 1. Nahorski, S.R. Biochemical effects of the anticonvulsants trimethadione, ethosuximide and chlordiazepoxide in rat brain. J. Neurochem. 19(8), 1937-1946 (1972).
- 2. Frey, H.H. Determination of the anticonvulsant potency of unmetabolized trimethadione. Acta. Pharmacol. Toxicol. (Copenh) 27(4), 295-300 (1969).
- 3. Sasa, M., Ohno, Y., Ujihara, H., et al. Effects of antiepileptic drugs on absence-like and tonic seizures in the spontaneously epileptic rat, a double mutant rat. Epilepsia 29(5), 505-513 (1988).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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