



LKT Laboratories, Inc.

## Doxapram Hydrochloride Hydrate

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### Product Information

Product ID D5992

CAS No. 7081-53-0

Chemical Name

Synonym

Formula  $C_{24}H_{30}N_2O_2 \cdot HCl \cdot H_2O$

Formula Wt. 432.98

Melting Point

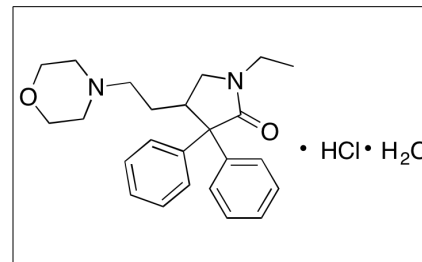
Purity  $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

**Description** Doxapram is a respiratory stimulant that acts as an antagonist at  $K^+$  channels in isolated type 1 cells. In vitro, doxapram stimulates catecholamine release (preferentially dopamine) from carotid bodies. Additionally, this compound exhibits presynaptic facilitatory action and postsynaptic inhibitory action at the neuromuscular junction (NMJ) during NMJ block.



**Bulk quantities available upon request**

Product ID	Size
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D5992	25 mg
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D5992	100 mg
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D5992	500 mg
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**References** Anderson-Beck R, Wilson L, Brazier S, et al. Doxapram stimulates dopamine release from the intact rat carotid body in vitro. *Neurosci Lett*. 1995 Feb 24;187(1):25-8. PMID: 7617294.

Peers C. Effects of doxapram on ionic currents recorded in isolated type I cells of the neonatal rat carotid body. *Brain Res*. 1991 Dec 24;568(1-2):116-22. PMID: 1667613.

Pollard BJ, Randall NP, Pleuvry BJ. Doxapram and the neuromuscular junction. *Br J Anaesth*. 1989 Jun;62(6):664-8. PMID: 2751921.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.