PRODUCT INFORMATION



Dextromethorphan (hydrobromide hydrate)

Item No. 13950

CAS Registry No.: Formal Name:	(9a,13a,14a)-3-methoxy-17-methyl-	<i>,</i>
	morphinan, hydrobromide monohydrate	<u> </u>
Synonyms:	DXM, D-Methorphan	
MF:	$C_{18}H_{25}NO \bullet HBr [H_2O]$	
FW:	370.3	
Purity:	≥98%	$\langle \rangle \rangle \rightarrow HBr[H_2O]$
UV/Vis.:	λ _{max} : 227, 280 nm	
Supplied as:	A crystalline solid	
Storage:	-20°C	—0
Stability:	≥4 years	

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Dextromethorphan (hydrobromide hydrate) (Item No. 13950) is an analytical reference standard categorized as an antitussive.¹ Dextromethorphan has analgesic and anticonvulsant activities in rodents.^{2,3} It has been found as an adulterant in 3,4-MDMA and has potential for abuse.^{4,5} This product is intended for research and forensic applications.

References

- 1. Bolser, D.C., Aziz, S.M., DeGennaro, F.C., et al. Antitussive effects of GABA_B agonists in the cat and guinea-pig. Br. J. Pharmacol. 110(1), 491-495 (1993).
- 2. Chen, Y.W., Chu, K.S., Lin, C.N., et al. Dextromethorphan or dextrorphan have a local anesthetic effect on infiltrative cutaneous analgesia in rats. Anesth. Analg. 104(5), 1251-1255 (2007).
- 3. Jamali, H. and Heydari, A. Effect of dextromethorphan/quinidine on pentylenetetrazole- induced clonic and tonic seizure thresholds in mice. Neurosci. Lett. 729, 134988 (2020).
- 4. Cole, C., Jones, L., McVeigh, J., et al. CUT: A guide to adulterants, bulking agents and other contaminants found in illicit drugs. Liverpool John Moores University (2010).
- 5. Chomchai, C. and Manaboriboon, B. Stimulant methamphetamine and dextromethorphan use among Thai adolescents: Implications for health of women and children. J. Med. Toxicol. 8(3), 291-294 (2012).

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

SAFFTY 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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