



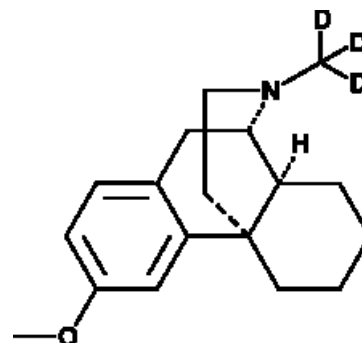
Dextromethorphan-d₃ (CRM)

Cat No: ISO60204 - 1 mg

General Data

Shipping: dry ice

Formulation: A 1 mg/ml solution in methanol



Special advice: Reference Materials RMs and Certified Reference Materials CRMs are dispatched directly to the end-user in accordance with ISO requirements. Please check regulation status before ordering; additional fees can apply.

Product Overview

Dextromethorphan-d₃ (CRM) contains three deuterium atoms at the 17-methyl group. It is intended for use as an internal standard for the quantification of dextromethorphan by GC- or LC-mass spectrometry. Dextromethorphan (DXM) (Item Nos. ISO60141

13950) is a dextrarotatory morphinan with structural similarity to levorphanol, codeine, and morphine. Because of its strong antitussive effects, DXM is widely used as a cough suppressant.^{21979} However, it does not provoke opioid activity as is characteristic of several other morphine derivatives. DXM binds to and inhibits NMDA (IC₅₀ = 0.55 μM) and nicotinic receptors (IC₅₀s = 0.7-3.9 μM) and blocks receptor-gated and voltage-gated calcium channels (IC₅₀ = 60 μM) and voltage-gated sodium channels (IC₅₀ = 78 μM).^{21979,21978,21981} DXM has been used in multimodal analgesic therapies for acute and neuropathic pain.^{21979,21980}

FP/25/24

For research laboratory use only – Not for human diagnostic use.

Buyers agree to purchase the material subject to Purchasing Terms that can be found on our website. Seek appropriate training to safely handle this product under normal conditions. Use the recommended personal protective equipment to prevent chemical exposures.

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