Desmethyldoxepin (hydrochloride)

**Item No. 15907**

**CAS Registry No.:** 2887-91-4

**Formal Name:** 3-dibenzo[b,c]oxepin-11(6H)-ylidene-N-methyl-1-propanamine, monohydrochloride

**Synonym:** Nordoxin

**MF:** C18H19NO • HCl

**FW:** 301.8

**Purity:** ≥98%

**Stability:** ≥2 years at -20°C

**Supplied as:** A crystalline solid

**UV/Vis.:** 

- \( \lambda_{\text{max}} \): 208, 296 nm

**Laboratory Procedures**

For long term storage, we suggest that desmethyldoxepin (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

Desmethyldoxepin (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the desmethyldoxepin (hydrochloride) in the solvent of choice. Desmethyldoxepin (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of desmethyldoxepin (hydrochloride) in ethanol is approximately 15 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of desmethyldoxepin (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of desmethyldoxepin (hydrochloride) in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Doxepin (Item No. 15888) is a tricyclic antidepressant. Desmethyldoxepin is the primary metabolite of doxepin, produced by metabolism at the liver.1,2 The metabolism of tricyclic antidepressants, including doxepin, is affected by a variety of factors, including age, genetics, and drug-drug interactions.3

**References**


**Related Products**

For a list of related products please visit: [www.caymanchem.com/catalog/15907](http://www.caymanchem.com/catalog/15907)

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