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- Expressversand

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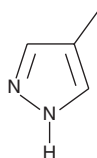
Product Information



Fomepizole

Item No. 17851

CAS Registry No.: 7554-65-6
Formal Name: 4-methyl-1H-pyrazole
Synonym: 4-Methylpyrazole
MF: C₄H₆N₂
FW: 82.1
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A neat oil
UV/Vis.: λ_{max}: 220 nm



Laboratory Procedures

For long term storage, we suggest that fomepizole be stored as supplied at -20°C. It should be stable for at least one year. Fomepizole is supplied as a neat oil. A stock solution may be made by dissolving the fomepizole the solvent of choice. Fomepizole is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of fomepizole in these solvents is approximately 50 mg/ml.

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 fomepizole can be prepared by directly dissolving the neat oil in aqueous buffers. The solubility of fomepizole in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Fomepizole is a competitive inhibitor of alcohol dehydrogenase, the enzyme that catalyzes metabolism of ethylene glycol and methanol to toxic metabolites.¹ At 10 μM in monkeys, it can prevent the formation of toxic alcohol metabolites that generate metabolic acidosis.¹ This compound is typically used as an antidote for ethylene glycol or methanol poisoning.²

References

1. Blomstrand, R., Östling-Wintzell, H., Löf, A., *et al.* Pyrazoles as inhibitors of alcohol oxidation and as important tools in alcohol research: An approach to therapy against methanol poisoning. *Proc. Natl. Acad. Sci. USA* **76**(7), 3499-3503 (1979).
2. Brent, J., McMartin, K., Phillips, S., *et al.* Fomepizole for the treatment of methanol poisoning. *N. Engl. J. Med.* **344**, 424-429 (2001).

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

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