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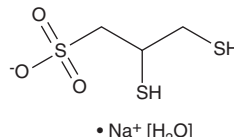
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PRODUCT INFORMATION

2,3-Dimercaptopropanesulfonate (sodium salt hydrate)

Item No. 39521

CAS Registry No.: 207233-91-8
Formal Name: 2,3-dimercapto-1-propanesulfonic acid, monosodium salt monohydrate
Synonym: DMPS
MF: $C_3H_7O_3S_3 \cdot Na [H_2O]$
FW: 228.3
Purity: $\geq 95\%$
Supplied as: A solid
Storage: $-20^\circ C$
Stability: ≥ 4 years



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

Laboratory Procedures

2,3-Dimercaptopropanesulfonate (DMPS) (sodium salt hydrate) is supplied as a solid. A stock solution may be made by dissolving the DMPS (sodium salt hydrate) in the solvent of choice, which should be purged with an inert gas. DMPS (sodium salt hydrate) is soluble (≥ 10 mg/ml) in DMSO and DMF and slightly soluble (0.1-1 mg/ml) in ethanol.

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 DMPS (sodium salt hydrate) can be prepared by directly dissolving the solid in aqueous buffers. DMPS (sodium salt hydrate) is soluble (≥ 10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

DMPS is a mercury chelator.¹ It reduces renal mercury levels and increases urinary mercury levels in uninephrectomized- and normal rats administered mercuric chloride. DMPS (180 or 360 mg/kg per day for four days) inhibits methylmercury chloride-induced increases in embryotoxicity and fetal- and maternal death and decreases in fetal bone ossification in a mouse model of heavy metal-induced developmental toxicity when administered to pregnant mice.²

References

1. Zalupds, R.K. Influence of 2,3-dimercaptopropane-1-sulfonate (DMPS) and meso-2,3-dimercaptosuccinic acid (DMSA) on the renal disposition of mercury in normal and uninephrectomized rats exposed to inorganic mercury. *J. Pharmacol. Exp. Ther.* **267**(2), 791-800 (1993).
2. Gomez, M., Sanchez, D.J., Colomina, M.T., et al. Evaluation of the protective activity of 2,3-dimercaptopropanol and sodium 2,3-dimercaptopropane-1-sulfonate on methylmercury-induced developmental toxicity in mice. *Arch. Environ. Contam. Toxicol.* **26**(1), 64-68 (1993).

WARNING

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

SAFETY 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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