

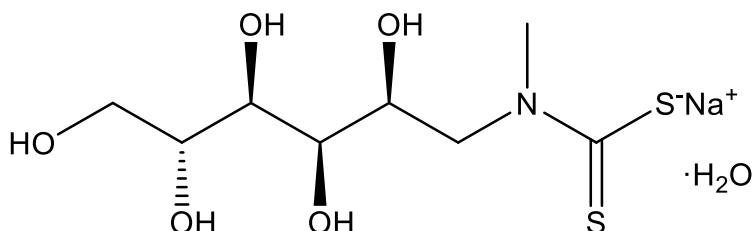
**Catalog # 10-4440**

**MGD-Na**

CAS# 91840-27-6

N-(Dithiocarboxy)-N-methyl-D-glucamine sodium salt hydrate

Lot # FBA8039



MGD-Na forms a stable and water soluble nitric oxide spin-trapping complex with  $\text{Fe}^{2+}$ .<sup>1,2</sup> A useful reagent for the measurement of nitric oxide in biological systems.<sup>3</sup>

- 1) Komarov *et al.* (1993), *In Vivo Spin Trapping of Nitric Oxide in Mice*; Biochem. Biophys. Res. Comm., **195** 1191
- 2) Lai and Komarov (1994), *Spin trapping of nitric oxide produced in vivo in septic-shock mice*; FEBS Lett., **345** 120
- 3) Ventkataraman *et al.* (2000), *Detailed methods for the quantification of nitric oxide in aqueous solutions using either oxygen monitor or EPR*; Free Rad. Biol. Med., **29** 580

**PHYSICAL DATA**

|                        |   |
|------------------------|---|
| Molecular Weight:      | 311.35 (anhydrous)  |
| Molecular Formula:     | $\text{C}_8\text{H}_{18}\text{NO}_6\text{S}_2 \cdot \text{Na} \cdot \text{H}_2\text{O}$   |
| Purity:                | >98% by HPLC  |
|                        | NMR: (Conforms)   |
| Solubility:            | DMSO (up to 25 mg/ml) or Ethanol (up to 25 mg/ml)   |
| Physical Description:  | Off-white solid   |
| Storage and Stability: | Store as supplied at $-20^\circ\text{C}$ for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at $-20^\circ\text{C}$ for up to 1 month. |

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.