

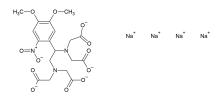
938 South Andreasen Drive, Suite E Escondido, CA 92029 USA Phone: +1-760-738-1508 Fax: +1-760-738-1530 info@auroramedbiochem.com www.auroramedbiochem.com

## **DM-Nitrophen Reagent, Tetrasodium Salt**

**ALTERNATE NAME:** 1-(2-Nitro-4,5-dimethoxyphenyl) N,N,N',N'-tetrakis[(oxycarbonyl)methyl]-1,2-ethanediamine, Tetrasodium Salt

CATALOG #: AUR1159

## STRUCTURE:



MOLECULAR FORMULA: C<sub>18</sub>H<sub>19</sub>N<sub>3</sub>O<sub>12</sub>.4Na

**MOLECULAR WEIGHT: 561.3** 

CAS#: N/A

APPEARANCE: Orange solid

**SOLUBILITY:** Water (100 mg/ml)

**PURITY:** ≥93% by HPLC

STORAGE: Store at -20°C. Protect from light. Hygroscopic

**DESCRIPTION**: DM-Nitrophen reagent is a caged  $Ca^{2+}$  chelator that undergoes a major and rapid decrease in  $Ca^{2+}$ -binding affinity upon photolysis. Can be microinjected or used with permeabilized cells. May also be useful as caged  $Mg^{2+}$  chelator.  $K_d$  ( $Ca^{2+}$ ) = 5 nM;  $K_d$  ( $Mg^{2+}$ ) = 2-5  $\mu$ M.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure