DMNP-EDTA, Tetrapotassium Salt (Caged Calcium)

DMNP-EDTA (also known as DM-Nitrophen™) is a caged calcium chelator. Upon photolysis, the Kd for Ca^{2+} increases from 5 nM to 3 mM, resulting in a pulse of free Ca^{2+}.

Product attributes

CAS number	117367-86-9
Cell permeability	Membrane impermeant

Product Description

DMNP-EDTA (also known as DM-Nitrophen™) is a caged Ca^{2+} chelator. Upon photolysis, the Kd for Ca^{2+} increases from 5 nM to 3 mM, resulting in a pulse of free Ca^{2+}.

- Light yellow solid soluble in water (pH >6) and DMSO
- Store desiccated at -20°C and protect from light
- Aqueous solutions stable for at least three months when stored at 4°C, protected from light
- $C_{18}H_{19}K_4N_3O_{12}$
- MW: 626

Biotium also offers a membrane-permeant DMNP-EDTA (Caged Calcium), AM Ester that may be used for live cell studies. Once inside the cell, intracellular esterases will hydrolyze the AM group. The resulting AM ester compound is then contained inside the cell and can accumulate.

DM-Nitrophen is a trademark of MilliporeSigma.