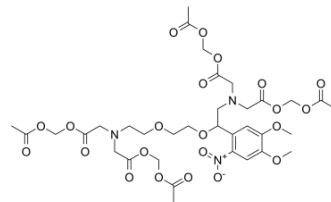


## DMNPE-4 AM-caged-calcium

Cat. No.:	HY-136283
CAS No.:	2253744-58-8
Molecular Formula:	C <sub>34</sub> H <sub>47</sub> N <sub>3</sub> O <sub>22</sub>
Molecular Weight:	849.74
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

DMNPE-4 AM-caged-calcium, photolabile analogues of EGTA, is an extremely effective Ca<sup>2+</sup> selective cage, with a K<sub>d</sub> for Ca<sup>2+</sup> of 48 nM and 19 nM at pH 7.2 and pH 7.4, respectively. DMNPE-4 AM-caged-calcium has a lower affinity for Ca<sup>2+</sup> (K<sub>d</sub>~2 nM) after photolysis<sup>[1][2]</sup>.

### REFERENCES

- [1]. Ellis-Davies GCR, et, al. Tuning caged calcium: photolabile analogues of EGTA with improved optical and chelation properties. *Cell Calcium*. 2006 Jan;39(1):75-83.
- [2]. DelPrincipe F, et, al. Two-photon and UV-laser flash photolysis of the Ca<sup>2+</sup> cage, dimethoxynitrophenyl-EGTA-4. *Cell Calcium*. 1999 Jan;25(1):85-91.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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