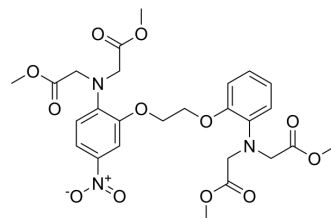


5-Nitro BAPTA tetramethyl ester

Cat. No.:	HY-D1637
CAS No.:	172646-43-4
Molecular Formula:	C ₂₆ H ₃₁ N ₃ O ₁₂
Molecular Weight:	577.54
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

5-Nitro BAPTA tetramethyl ester is a calcium chelator. 5-Nitro BAPTA tetramethyl ester involves in the two-photon probe synthesis, and is used for real-time imaging of intracellular calcium ions, calcium waves monitoring at a depth of 100-300 μm in liver tissues for 1100-4000 s. 5-Nitro BAPTA tetramethyl ester, together with fluorescent compound 2-Me-substituted TM, can be used to form a red fluorescent probe (CaTM-2 AM)^{[1][2]}.

REFERENCES

- [1]. Egawa T, et al. Red fluorescent probe for monitoring the dynamics of cytoplasmic calcium ions. *Angew Chem Int Ed Engl.* 2013 Apr 2;52(14):3874-7.
- [2]. Cho Bong Rae, et al. Two-photon probe for real-time monitoring of intracellular calcium ions, method for preparing the probe and method for real-time monitoring of intracellular calcium ions using the probe: World Intellectual Property Organization, WO2009031734[P]. 2009-03-12.

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

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