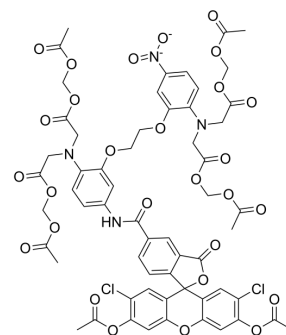


Calcium Green-5N AM

Cat. No.:	HY-D1631
CAS No.:	216699-33-1
Molecular Formula:	$C_{59}H_{52}Cl_2N_4O_{28}^{2-}$
Molecular Weight:	1335.96
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Calcium Green-5N AM is a novel Ca^{2+} -sensitive fluorescent probe. Calcium Green-5N AM shows enhancement in fluorescence intensity on binding Ca^{2+} , and can monitor free Ca^{2+} in neurons^{[1][2][3]}.

REFERENCES

- [1]. D Thomas, et al. A comparison of fluorescent Ca^{2+} indicator properties and their use in measuring elementary and global Ca^{2+} signals. *Cell Calcium*. 2000 Oct;28(4):213-23.
- [2]. S Rajdev, et al. Calcium green-5N, a novel fluorescent probe for monitoring high intracellular free Ca^{2+} concentrations associated with glutamate excitotoxicity in cultured rat brain neurons. *Neurosci Lett*. 1993 Nov 12;162(1-2):149-52.
- [3]. Scott B Herrick, et al. The acrosomal vesicle of mouse sperm is a calcium store. *J Cell Physiol*. 2005 Mar;202(3):663-71.

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

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