

## Rhod-5N, AM

### Product Description

<b>Name :</b>	<b>Rhod-5N AM</b>
<b>Catalog Number :</b>	FP-M227A, 1mg
<b>Molecular Weight :</b>	MW= 1154,92
<b>Solubility:</b>	DMSO
<b>Absorption / Emission :</b>	$\lambda_{exc}/\lambda_{em}$ (MeOH) = 551/577 nm
<b>K<sub>d</sub> of Ca<sup>2+</sup>-Binding :</b>	320 $\mu$ M
<b>EC (M<sup>-1</sup> cm<sup>-1</sup>) :</b>	63 000

**Storage:** -20°C      Protect from light and moisture

### Introduction

Calcium measurement is critical for numerous biological investigations. Fluorescent probes that show spectral responses upon binding Ca<sup>2+</sup> have enabled researchers to investigate changes in intracellular free Ca<sup>2+</sup> concentrations by using fluorescence microscopy, flow cytometry, fluorescence spectroscopy and fluorescence microplate readers. Rhod-5N has a lower binding affinity for Ca<sup>2+</sup> (K<sub>d</sub> = ~320  $\mu$ M) than any other BAPTA-based indicator and is suitable for Ca<sup>2+</sup> measurements from 10  $\mu$ M to 1 mM. Like the parent Rhod-2 indicator, Rhod-5N is essentially nonfluorescent in the absence of divalent cations and exhibits strong fluorescence enhancement with no spectral shift upon binding Ca<sup>2+</sup>. Rhod-5N AM is cell-permeable version of Rhod-5N.

### Directions for use

#### Guidelines for use

Protocol may be found in the literature.

#### References

- David G *et al.*, Quantitative estimate of mitochondrial [Ca<sup>2+</sup>] in stimulated motor nerve terminals, *Cell Calcium* (2003) 33:197-206 [Article](#)

### Technical and scientific information

#### Related products

See [Product highlights](#), [BioSciences Innovations catalogue](#) and [e-search tool](#).

- Fura-2 AM, FP-42776C
- Fluo-8 AM, CP7501

### Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.  
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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[Info@fluoprobes.com](mailto:Info@fluoprobes.com)  
[Technical-support@fluoprobes.com](mailto:Technical-support@fluoprobes.com)

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