

Indo-PE3

Product Information

Name :	Indo-PE3, AM ester
Catalog Number :	FP-AM602A, 500 µg FP-AM602B, 10x50 µg
Structure :	C ₅₈ H ₆₇ N ₅ O ₂₇
Molecular Weight :	1266.20 MW
Solubility:	Soluble in DMSO
Absorption / Emission :	$\lambda_{exc} \backslash \lambda_{em}$ (low [Ca ²⁺]) = 350 nm / 475 nm(*) $\lambda_{exc} \backslash \lambda_{em}$ (high [Ca ²⁺]) = 350 nm / 408 nm(*)

(*) after hydrolysis

Name :	Indo-PE3, K salt.
Catalog Number :	FP-AM601A, 500 µg
Structure :	C ₄₀ H ₃₇ N ₅ O ₁₅ K ₆
Molecular Weight :	1062.38 MW
Solubility:	Soluble in water pH>6
Absorption / Emission :	$\lambda_{exc} \backslash \lambda_{em}$ (low [Ca ²⁺]) = 350 nm / 475 nm $\lambda_{exc} \backslash \lambda_{em}$ (high [Ca ²⁺]) = 350 nm / 408 nm.
Extinction Coefficient :	ϵ (high [Ca ²⁺]) = 33 000 M ⁻¹ cm ⁻¹
K_d :	260 nM

Storage: **Indicator salts** can be stored desiccated and protected from light at room temperature, +4°C or –20°C >1 year.
AM esters can be stored desiccated and protected from light at –20°C > 6 months.

Introduction

Indo-PE3 is a calcium indicator derivated of Indo -2 with similar properties. But it is retained in cells longer than indo-1

It a cell permeable leakage resistant Ca²⁺ ratiometric dye:

- Can be loaded into cells by simple incubation
- Once inside cells, hydrolysis of AM group gives the highly fluorescent IndoPE3 product (FP-AM601A).

Instruction for use

Protocols may be found in litterature

References

- Narayanan B**, *et al.*, « A Direct Mass-action Mechanism Explains Capacitative Calcium Entry in Jurkat and Skeletal L6 Muscle Cells », *J. Biol. Chem.*, **278**: 44188 (2003) [Article](#)
- Islam NM**, *et al.*, « A Mechanism for Both Capacitative Ca²⁺ Entry and Excitation-Contraction Coupled Ca²⁺ Release by the Sarcoplasmic Reticulum of Skeletal Muscle Cells », *Experimental Biology and Medicine*, **227**, 425 (2002) [Article](#)
- Wingertzahn MA**, *et al.* « Changes in Ryanodine Receptor-Mediated Calcium Release During Skeletal Muscle Differentiation. II. Resolution of a Caffeine –Ryanodine Paradox », *Experimental Biology and Medicine*, **226**, 119 (2001) [Article](#)

Ordering information

Catalog size quantites and prices may be found at <http://www.interchim.com>

Please inquire for higher quantities (avaibility, shipment conditions).

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

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Info@fluoprobes.com

Technical-support@fluoprobes.com

Order-online@fluoprobes.com

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Fluoprobes, powered by



213 Avenue J.F. Kennedy - BP 1140
03103 Montluçon Cedex - France
Tel. 04 70 03 88 55 - Fax 04 70 03 82 60

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