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DATASHEET

Indo-1 AM

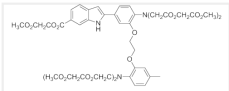
Product overview

Name	Indo-1 AM
Cat No	HB0790
Alternative names	Indo-1/AM; Indo-1 acetoxymethylester
Biological description	Cell permeable calcium sensitive fluorescent dye. Binds to Ca^{2+} ($K_d = 0.25 \mu\text{M}$). Ratiometric and excited by UV light. Hydrolysed into Indo-1 by cytoplasmic esterases. May be used for monitoring Ca levels. Inhibits renal proximal tubule cell volume regulation.
Biological action	Dyes & stains
Purity	>95%
Description	Calcium sensitive fluorescent dye

Solubility & Handling

Storage instructions	-20 °C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	1-[2-Amino-5-(6-carboxyindol-2-yl)phenoxy]-2-(2'-amino-5'-methylphenoxy)ethane-N,N,N',N'-tetraacetic acid, pentaacetoxymethylester
Molecular Weight	1009.9
Chemical structure	
Molecular Formula	$\text{C}_{47}\text{H}_{51}\text{N}_3\text{O}_{22}$
CAS Number	112926-02-0
PubChem identifier	0
SMILES	<chem>CC(=O)OCOC(=O)CN(CC(=O)OCOC(C)=O)c1ccc(C)cc1OCCOc2cc(ccc2N(CC(=O)OCOC(C)=O)C(=O)OCOC(C)=O)c3[nH]c4cc(ccc4c3)C(=O)OCOC(C)=O</chem>

References

The fluorescent calcium indicator indo-1/AM inhibits renal proximal tubule cell volume regulation.

Kanli H *et al* (1992) *Ann Clin Lab Sci* 22(4)

PubMedID [1503391](#)

The source of epifluorescence in isolated perfused heart loaded with fura 2-AM or indo 1-AM.

Shinozaki T *et al* (1993) *Heart Vessels* 8(2)

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A new generation of Ca²⁺ indicators with greatly improved fluorescence properties.

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PubMedID

[3838314](#)
