

References for Products 21030 to 21044

1. Bailey S, Macardle PJ. (2006) A flow cytometric comparison of Indo-1 to fluo-3 and Fura Red excited with low power lasers for detecting Ca(2+) flux. *J Immunol Methods*, 311, 220.
2. Nelemans A. (2006) Measurement of [Ca2+] in cell suspensions using indo-1. *Methods Mol Biol*, 312, 47.
3. Eerbeek O, Mik EG, Zuurbier CJ, van 't Loo M, Donkersloot C, Ince C. (2004) Ratiometric intracellular calcium imaging in the isolated beating rat heart using indo-1 fluorescence. *J Appl Physiol*, 97, 2042.
4. Sakurai K, Norota I, Tanaka H, Kubota I, Tomoike H, Endo M. (2002) Negative inotropic effects of angiotensin II, endothelin-1 and phenylephrine in indo-1 loaded adult mouse ventricular myocytes. *Life Sci*, 70, 1173.
5. Imaizumi Y. (2000) [Comment on "Usefulness of intracellular calcium analysis and the problem--aequorin and indo-1 signal"]. *Nippon Yakurigaku Zasshi*, 116, 101.
6. Endoh M. (2000) [Usefulness of the analytic method of intracellular calcium and the problems--aequorin and indo-1 signal]. *Nippon Yakurigaku Zasshi*, 115, 361.
7. McKemy DD, Welch W, Airey JA, Sutko JL. (2000) Concentrations of caffeine greater than 20 mM increase the indo-1 fluorescence ratio in a Ca(2+)-independent manner. *Cell Calcium*, 27, 117.
8. Collet C, Allard B, Tourneur Y, Jacquemond V. (1999) Intracellular calcium signals measured with indo-1 in isolated skeletal muscle fibres from control and mdx mice. *J Physiol*, 520 Pt 2, 417.
9. Wang SQ, Zhou ZQ. (1999) Alpha-stat calibration of indo-1 fluorescence and measurement of intracellular free calcium in rat ventricular cells at different temperatures. *Life Sci*, 65, 871.
10. Nelemans A. (1999) Measurement of [Ca2+]i in cell suspensions using indo-1. *Methods Mol Biol*, 114, 41.
11. Sato S, Talukder MA, Sugawara H, Sawada H, Endoh M. (1998) Effects of levosimendan on myocardial contractility and Ca2+ transients in aequorin-loaded right-ventricular papillary muscles and indo-1-loaded single ventricular cardiomyocytes of the rabbit. *J Mol Cell Cardiol*, 30, 1115.
12. Jacquemond V. (1997) Indo-1 fluorescence signals elicited by membrane depolarization in enzymatically isolated mouse skeletal muscle fibers. *Biophys J*, 73, 920.
13. Griffiths EJ, Stern MD, Silverman HS. (1997) Measurement of mitochondrial calcium in single living cardiomyocytes by selective removal of cytosolic indo 1. *Am J Physiol*, 273, C37.
14. Ligeti L, Mayevsky A, Ruttner Z, Kovach AG, McLaughlin AC. (1997) Can the Indo-1 fluorescence approach measure brain intracellular calcium in vivo? A multiparametric study of cerebrocortical anoxia and ischemia. *Cell Calcium*, 21, 115.
15. Sako Y, Sekihata A, Yanagisawa Y, Yamamoto M, Shimada Y, Ozaki K, Kusumi A. (1997) Comparison of two-photon excitation laser scanning microscopy with UV-confocal laser scanning microscopy in three-dimensional calcium imaging using the fluorescence indicator Indo-1. *J Microsc*, 185, 9.
16. Ganitkevich VY. (1996) The amount of acetylcholine mobilisable Ca2+ in single smooth muscle cells measured with the exogenous cytoplasmic Ca2+ buffer, Indo-1. *Cell Calcium*, 20, 483.
17. Fujita S, Endoh M. (1996) Effects of endothelin-1 on [Ca2+]i-shortening trajectory and Ca2+ sensitivity in rabbit single ventricular cardiomyocytes loaded with indo-1/AM: comparison with the effects of phenylephrine and angiotensin II. *J Card Fail*, 2, S45.
18. Abe Y, Sekioka K, Ishisu R, Onishi K, Ueda Y, Nakano T. (1996) Restoration of ischemic contractile failure of indo-1-loaded guinea pig heart by a calcium sensitizer, MCI-154. *J Pharmacol Exp Ther*, 279, 47.

19. Scheenen WJ, Makings LR, Gross LR, Pozzan T, Tsien RY. (1996) Photodegradation of indo-1 and its effect on apparent Ca²⁺ concentrations. *Chem Biol*, 3, 765.
20. Levi AJ, Li J, Litwin SE, Spitzer KW. (1996) Effect of internal sodium and cellular calcium load on voltage-dependence of the Indo-1 transient in guinea-pig ventricular myocytes. *Cardiovasc Res*, 32, 534.
21. Morii I, Kihara Y, Konishi T, Inubushi T, Sasayama S. (1996) Mechanism of the negative force-frequency relationship in physiologically intact rat ventricular myocardium--studies by intracellular Ca²⁺ monitor with indo-1 and by 31P-nuclear magnetic resonance spectroscopy. *Jpn Circ J*, 60, 593.
22. Levi AJ, Li J, Spitzer KW, Bridge JH. (1996) Effect on the indo-1 transient of applying Ca²⁺ channel blocker for a single beat in voltage-clamped guinea-pig cardiac myocytes. *J Physiol*, 494 (Pt 3), 653.
23. Westerblad H, Allen DG. (1996) Intracellular calibration of the calcium indicator indo-1 in isolated fibers of Xenopus muscle. *Biophys J*, 71, 908.
24. Schreur JH, Figueiredo VM, Miyamae M, Shames DM, Baker AJ, Camacho SA. (1996) Cytosolic and mitochondrial [Ca²⁺] in whole hearts using indo-1 acetoxyethyl ester: effects of high extracellular Ca²⁺. *Biophys J*, 70, 2571.
25. Hardie RC. (1996) INDO-1 measurements of absolute resting and light-induced Ca²⁺ concentration in Drosophila photoreceptors. *J Neurosci*, 16, 2924.
26. Tanaka H, Kawanishi T, Kato Y, Nakamura R, Shigenobu K. (1996) Restricted propagation of cytoplasmic Ca²⁺ oscillation into the nucleus in guinea pig cardiac myocytes as revealed by rapid scanning confocal microscopy and indo-1. *Jpn J Pharmacol*, 70, 235.
27. Ishisu R, Abe Y, Onishi K, Ueda Y, Sekioka K, Nakano T. (1996) Changes in calcium transient and left ventricular function during positive inotropic stimulation and myocardial ischemia in indo-1-loaded beating guinea pig heart. *J Pharmacol Toxicol Methods*, 35, 55.
28. Szmacinski H, Gryczynski I, Lakowicz JR. (1996) Three-photon induced fluorescence of the calcium probe Indo-1. *Biophys J*, 70, 547.
29. Owen CS, Dever S. (1995) Indo-1 can simultaneously detect Ba²⁺ entry and Ca²⁺ blockade at a plasma membrane calcium channel. *Mol Cell Biochem*, 151, 91.
30. Gryczynski I, Szmacinski H, Lakowicz JR. (1995) On the possibility of calcium imaging using Indo-1 with three-photon excitation. *Photochem Photobiol*, 62, 804.
31. Sipido KR, Callewaert G. (1995) How to measure intracellular [Ca²⁺] in single cardiac cells with fura-2 or indo-1. *Cardiovasc Res*, 29, 717.
32. Millot JM, Pingret L, Angiboust JF, Bonhomme A, Pinon JM, Manfait M. (1995) Quantitative determination of free calcium in subcellular compartments, as probed by Indo-1 and confocal microspectrofluorometry. *Cell Calcium*, 17, 354.
33. Bassani JW, Bassani RA, Bers DM. (1995) Calibration of indo-1 and resting intracellular [Ca²⁺] in intact rabbit cardiac myocytes. *Biophys J*, 68, 1453.
34. Perrier ML, Benavides J. (1995) Pharmacological heterogeneity of NMDA receptors in cerebellar granule cells in immature rat slices. A microfluorimetric study with the [Ca²⁺]i sensitive dye Indo-1. *Neuropharmacology*, 34, 35.
35. Stevens T, Fouty B, Cornfield D, Rodman DM. (1994) Reduced PO₂ alters the behavior of Fura-2 and Indo-1 in bovine pulmonary artery endothelial cells. *Cell Calcium*, 16, 404.
36. Ikenouchi H, Barry WH, Bridge JH, Weinberg EO, Apstein CS, Lorell BH. (1994) Effects of angiotensin II on intracellular Ca²⁺ and pH in isolated beating rabbit hearts and myocytes loaded with the indicator indo-1. *J Physiol*, 480 (Pt 2), 203.
37. Baker AJ, Brandes R, Schreur JH, Camacho SA, Weiner MW. (1994) Protein and acidosis alter calcium-binding and fluorescence spectra of the calcium indicator indo-1. *Biophys J*, 67, 1646.
38. Wieder ED, Fox MH. (1994) Isolation and characterization of a Chinese hamster ovary cell mutant with improved staining for indo-1. *Cytometry*, 17, 33.
39. Kirby MS, Hadley RW, Lederer WJ. (1994) Measurement of intracellular Ca²⁺ concentration using Indo-1 during simultaneous flash photolysis to release Ca²⁺ from DM-nitrophen. *Pflugers Arch*, 427, 169.

40. Fournier B, Guerineau N, Mollard P, Girardie J. (1994) Effects of two neuronal antidiuretic molecules, neuroparsin and 5-hydroxytryptamine, on cytosolic free calcium monitored with indo-1 in epithelial and muscular cells of the African locust rectum. *Biochim Biophys Acta*, 1220, 181.
41. Hadley RW, Kirby MS, Lederer WJ, Kao JP. (1993) Does the use of DM-nitrophen, nitr-5, or diazo-2 interfere with the measurement of indo-1 fluorescence? *Biophys J*, 65, 2537.
42. Owen CS. (1993) Simultaneous measurement of two cations with the fluorescent dye indo-1. *Anal Biochem*, 215, 90.
43. Brandes R, Figueiredo VM, Camacho SA, Baker AJ, Weiner MW. (1993) Quantitation of cytosolic $[Ca^{2+}]$ in whole perfused rat hearts using Indo-1 fluorometry. *Biophys J*, 65, 1973.
44. Szmacinski H, Gryczynski I, Lakowicz JR. (1993) Calcium-dependent fluorescence lifetimes of Indo-1 for one- and two-photon excitation of fluorescence. *Photochem Photobiol*, 58, 341.
45. Rivet-Bastide M, Imbert N, Cognard C, Duport G, Rideau Y, Raymond G. (1993) Changes in cytosolic resting ionized calcium level and in calcium transients during in vitro development of normal and Duchenne muscular dystrophy cultured skeletal muscle measured by laser cytofluorimetry using indo-1. *Cell Calcium*, 14, 563.
46. Cognard C, Constantin B, Rivet-Bastide M, Raymond G. (1993) Intracellular calcium transients induced by different kinds of stimulus during myogenesis of rat skeletal muscle cells studied by laser cytofluorimetry with Indo-1. *Cell Calcium*, 14, 333.
47. Shinozaki T, Ishide N, Miura M, Takishima T. (1993) The source of epifluorescence in isolated perfused heart loaded with fura 2-AM or indo 1-AM. *Heart Vessels*, 8, 79.
48. Kanli H, Brown HM, Terreros DA. (1992) The fluorescent calcium indicator indo-1/AM inhibits renal proximal tubule cell volume regulation. *Ann Clin Lab Sci*, 22, 236.
49. Hove-Madsen L, Bers DM. (1992) Indo-1 binding to protein in permeabilized ventricular myocytes alters its spectral and Ca binding properties. *Biophys J*, 63, 89.
50. Sollott SJ, Ziman BD, Lakatta EG. (1992) Novel technique to load indo-1 free acid into single adult cardiac myocytes to assess cytosolic Ca^{2+} . *Am J Physiol*, 262, H1941.
51. Bancel F, Salmon JM, Vigo J, Viallet P. (1992) Microspectrofluorometry as a tool for investigation of non-calcium interactions of Indo-1. *Cell Calcium*, 13, 59.
52. Hahm SH, Saunders MJ. (1991) Cytokinin increases intracellular Ca^{2+} in Funaria: detection with Indo-1. *Cell Calcium*, 12, 675.
53. Ikenouchi H, Peeters GA, Barry WH. (1991) Evidence that binding of Indo-1 to cardiac myocyte protein does not markedly change K_d for Ca^{2+} . *Cell Calcium*, 12, 415.
54. Callewaert G, Lipp P, Pott L, Carmeliet E. (1991) High-resolution measurement and calibration of $Ca(2+)$ -transients using Indo-1 in guinea-pig atrial myocytes under voltage clamp. *Cell Calcium*, 12, 269.
55. O'Brien PJ, Shen H, Weiler J, Mirsalimi M, Julian R. (1991) Myocardial Ca-sequestration failure and compensatory increase in Ca-ATPase with congestive cardiomyopathy: kinetic characterization by a homogenate microassay using real-time ratiometric indo-1 spectrofluorometry. *Mol Cell Biochem*, 102, 1.
56. Ishida H, Seguchi H, Sakata N, Ohusuzu F, Aosaki N, Nakamura H, Okino H. (1991) Effects of fura-2 and indo-1 on $[Ca^{2+}]_i$ in spontaneously beating cultured heart cells. *Tokai J Exp Clin Med*, 16, 3.
57. Owen CS, Sykes NL, Shuler RL, Ost D. (1991) Non-calcium environmental sensitivity of intracellular Indo-1. *Anal Biochem*, 192, 142.
58. Torres-Marquez ME, Moreno-Sanchez R. (1991) Measurement of the cytosolic Ca^{2+} mobilization induced by extracellular ATP in AS-30D hepatoma cells using Indo-1. *Proc West Pharmacol Soc*, 34, 399.
59. Pott L, Lipp P, Callewaert G, Carmeliet E. (1991) Spatial properties of Ca^{2+} transients in cardiac myocytes studied by simultaneous measurement of $Na^+ - Ca^{2+}$ exchange current and indo-1 fluorescence. *Ann N Y Acad Sci*, 639, 354.
60. Blatter LA, Wier WG. (1990) Intracellular diffusion, binding, and compartmentalization of the fluorescent calcium indicators indo-1 and fura-2. *Biophys J*, 58, 1491.

61. Lipp P, Pott L, Callewaert G, Carmeliet E. (1990) Simultaneous recording of Indo-1 fluorescence and Na⁺/Ca²⁺ exchange current reveals two components of Ca²⁺⁽⁺⁾-release from sarcoplasmic reticulum of cardiac atrial myocytes. *FEBS Lett*, 275, 181.
62. Arkhammar P, Nilsson T, Berggren PO. (1990) Glucose-stimulated efflux of indo-1 from pancreatic beta-cells is reduced by probenecid. *FEBS Lett*, 273, 182.
63. Lorell BH, Apstein CS, Cunningham MJ, Schoen FJ, Weinberg EO, Peeters GA, Barry WH. (1990) Contribution of endothelial cells to calcium-dependent fluorescence transients in rabbit hearts loaded with indo 1. *Circ Res*, 67, 415.
64. Wahl M, Lucherini MJ, Gruenstein E. (1990) Intracellular Ca²⁺ measurement with Indo-1 in substrate-attached cells: advantages and special considerations. *Cell Calcium*, 11, 487.
65. O'Brien PJ. (1990) Calcium sequestration by isolated sarcoplasmic reticulum: real-time monitoring using ratiometric dual-emission spectrofluorometry and the fluorescent calcium-binding dye indo-1. *Mol Cell Biochem*, 94, 113.
66. Bochkov VN, Cheglakov IB, Ligum DE, Gavrilov I, Avdonin PV. (1990) [Increase of calcium ion level in the cytoplasm of indo 1-loaded HeLa cells under the action of histamine]. *Biull Eksp Biol Med*, 109, 40.
67. June CH, Rabinovitch PS. (1990) Flow cytometric measurement of intracellular ionized calcium in single cells with indo-1 and fluo-3. *Methods Cell Biol*, 33, 37.
68. Jennings LK, Dockter ME, Wall CD, Fox CF, Kennedy DM. (1989) Calcium mobilization in human platelets using indo-1 and flow cytometry. *Blood*, 74, 2674.
69. Halachmi D, Eilam Y. (1989) Cytosolic and vacuolar Ca²⁺ concentrations in yeast cells measured with the Ca²⁺-sensitive fluorescence dye indo-1. *FEBS Lett*, 256, 55.
70. Owen CS, Shuler RL. (1989) Spectral evidence for non-calcium interactions of intracellular Indo-1. *Biochem Biophys Res Commun*, 163, 328.
71. Tamura K, Yoshida S, Fujiwake H, Watanabe I, Sugawara Y. (1989) Simultaneous measurement of cytosolic free calcium concentration and cell circumference during contraction, both in a single rat cardiomuscular cell, by digital imaging microscopy with indo-1. *Biochem Biophys Res Commun*, 162, 926.
72. Sick TJ, Rosenthal M. (1989) Indo-1 measurements of intracellular free calcium in the hippocampal slice: complications of labile NADH fluorescence. *J Neurosci Methods*, 28, 125.
73. Lopez M, Olive D, Mannion P. (1989) Analysis of cytosolic ionized calcium variation in polymorphonuclear leukocytes using flow cytometry and Indo-1 AM. *Cytometry*, 10, 165.
74. Peeters GA, Kohmoto O, Barry WH. (1989) Detection of La³⁺ influx in ventricular cells by indo-1 fluorescence. *Am J Physiol*, 256, C351.
75. Wolf ME, Kapatos G. (1989) Stimulation of D2 dopamine receptors decreases intracellular calcium levels in rat anterior pituitary cells but not striatal synaptosomes: a flow cytometric study using indo-1. *Synapse*, 4, 353.
76. Lee HC, Mohabir R, Smith N, Franz MR, Clusin WT. (1988) Effect of ischemia on calcium-dependent fluorescence transients in rabbit hearts containing indo 1. Correlation with monophasic action potentials and contraction. *Circulation*, 78, 1047.
77. Gunter TE, Restrepo D, Gunter KK. (1988) Conversion of esterified fura-2 and indo-1 to Ca²⁺-sensitive forms by mitochondria. *Am J Physiol*, 255, C304.
78. Owen CS. (1988) Quantitation of lymphocyte intracellular free calcium signals using indo-1. *Cell Calcium*, 9, 141.
79. Jones GD, Gear AR. (1988) Subsecond calcium dynamics in ADP- and thrombin-stimulated platelets: a continuous-flow approach using indo-1. *Blood*, 71, 1539.
80. Popov EG, Gavrilov Y, Pozin E, Gabbasov ZA. (1988) Multiwavelength method for measuring concentration of free cytosolic calcium using the fluorescent probe indo-1. *Arch Biochem Biophys*, 261, 91.
81. Bush DS, Jones RL. (1987) Measurement of cytoplasmic calcium in aleurone protoplasts using indo-1 and fura-2. *Cell Calcium*, 8, 455.
82. Jackson AP, Timmerman MP, Bagshaw CR, Ashley CC. (1987) The kinetics of calcium binding to fura-2 and indo-1. *FEBS Lett*, 216, 35.

83. Hamilton KK, Sims PJ. (1987) Changes in cytosolic Ca²⁺ associated with von Willebrand factor release in human endothelial cells exposed to histamine. Study of microcarrier cell monolayers using the fluorescent probe indo-1. *J Clin Invest*, 79, 600.
84. Luckhoff A. (1986) Measuring cytosolic free calcium concentration in endothelial cells with indo-1: the pitfall of using the ratio of two fluorescence intensities recorded at different wavelengths. *Cell Calcium*, 7, 233.
85. Rabinovitch PS, June CH, Grossmann A, Ledbetter JA. (1986) Heterogeneity among T cells in intracellular free calcium responses after mitogen stimulation with PHA or anti-CD3. Simultaneous use of indo-1 and immunofluorescence with flow cytometry. *J Immunol*, 137, 952.
86. Bijsterbosch MK, Rigley KP, Klaus GG. (1986) Cross-linking of surface immunoglobulin on B lymphocytes induces both intracellular Ca²⁺ release and Ca²⁺ influx: analysis with indo-1. *Biochem Biophys Res Commun*, 137, 500.