

Lumiprobe Corporation

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FluoriCa-8 AM, green fluorescent calcium indicator

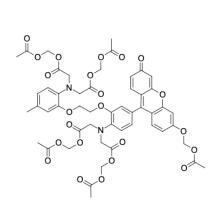
http://cn.lumiprobe.com/p/fluo-8-am

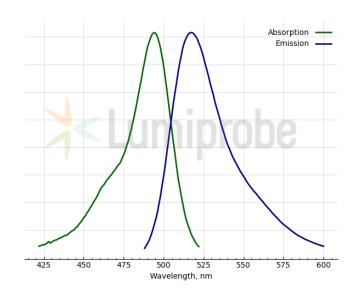
FluoriCa-8 AM is a cell-permeable Ca^{2+} -indicator that is metabolized by intracellular esterase, leading to a bright green fluorescent signal upon Ca^{2+} -binding (excitation/emission λ at 490/514 nm). FluoriCa-8 AM is used for visualization and quantifying intracellular Ca^{2+} . It is well suited for fluorometric and imaging applications such as microscopy, flow cytometry, spectrofluorometry, and fluorometric high-throughput microplate screening assays.

FluoriCa-8 AM is similar in structure and spectral properties to the Ca^{2+} indicators Fluo-3 AM and Fluo-4 AM but has the brightest fluorescence compared to them (two times brighter than Fluo-4 and four times brighter than Fluo-3). The K_d of FluoriCa-8 AM for Ca^{2+} is about 389 nM. With its highest fluorescence intensity, FluoriCa-8 AM is ideal for applications where the concentration of dye loaded into cells is required to be minimized. Unlike Fluo-3 AM and Fluo-4 AM, which require cells to be incubated at 37 °C, FluoriCa-8 AM can be loaded into cells at room temperature.

As FluoriCa-8 AM does not covalently bind to cellular components, it may be actively effluxed from the cell by organic anion transporters. *In vivo* cell imaging with FluoriCa-8 AM is usually performed within one or two hours after loading, but the dye can be re-loaded to cells if it is needed. FluoriCa-8 AM can also be fixed *in situ* by <u>EDC/EDAC</u> for downstream immunofluorescence studies.

FluoriCa-8 AM has low solubility in the water. It is recommended to prepare 1 mM stock solution in <u>labeling grade DMSO</u> prior to cell loading. Use the final concentration of 1-5 µM and incubation at RT for 15-60 min as a start point of your protocol.





外观:

分子量: 1060.97

CAS 编号: 1345980-40-6

分子式: C₅₁H₅₂N₂O₂₃

溶解度: 质量控制: 储存条件:

激发/吸收极大值,纳米: 494 发射极大值,纳米: 517