

Product Data Sheet

- ③ 将细胞置于含有AM的溶液中孵育2~3h
- ④ 将细胞置于含有AM的溶液中孵育
- (4) 将细胞置于1000g 5min PBS中孵育2-3h
- (5) 将细胞置于30min AM中孵育

3. 实验步骤

- (1) 将细胞置于含有AM的溶液中孵育
- (2) 将细胞置于含有AM的溶液中孵育
- (3) 将细胞置于100μL AM中孵育
- (4) 将细胞置于20min-2h AM中孵育
- (5) 将细胞置于PBS中孵育2~3h
- (6) 将细胞置于30min AM中孵育

4. 实验参数 Indo-1 激发波长 349-364nm 发射波长 475-485 nm 激发光 400-410 nm

参考文献

- 1. Paredes, R.M., Etzler, J.C., Watts, L.T., et al. Chemical calcium indicators Methods 46(3)143-151(2008)
- 2. Grynkiewicz, G., Poenie, M., and Tsien, R.Y. A new generation of Ca²⁺ indicators with greatly improved fluorescence properties. J. Biol. Chem. 260(6)3440-3450(1985)

Background

Indo-1 AM is a cell-permeant acetoxymethyl ester of the ratiometric fluorescent calcium indicator indo-1. As indo-1 AM enters cells, it is hydrolyzed by intracellular esterases to produce Indo-1. Indo-1 is ideal for analyses using flow cytometry, as it uses a single excitation source, typically 349-364 nm light from an argon-ion laser. The emission maximum shifts from 475-485 nm without calcium to 400-410 nm when indo-1 binds calcium.^{1,2} Indo-1 is prone to photobleaching, which limits its usefulness in methods involving microscopy.¹

1. Paredes, R.M., Etzler, J.C., Watts, L.T., et al. Chemical calcium indicators Methods 46(3)143-151(2008) 2. Grynkiewicz, G., Poenie, M., and Tsien, R.Y. A new generation of Ca²⁺ indicators with greatly improved fluorescence properties. J. Biol. Chem. 260(6)3440-3450(1985)

Caution: Product has not been fully validated for medical applications. For research use only.
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