

Product Data Sheet

- ③ 将Quin-2 AM加入细胞悬液中，孵育2~3h
- ④ 离心，弃去上清液
- (4) 加入1000g，5min，PBS洗涤2-3次
- (5) 加入30min，AM

3. 实验步骤

- (1) 将细胞悬液加入培养皿中
- (2) 加入100μL，孵育20min-2h
- (3) 加入100μL，孵育20min-2h
- (4) 加入100μL，孵育20min-2h
- (5) 加入100μL，孵育20min-2h
- (6) 加入100μL，孵育20min-2h

4. 实验结果 Quin-2 AM 339/492nm

实验结果

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Background

Quin-2 AM is a cell-permeant acetoxymethyl ester of the high affinity fluorescent calcium indicator quin-2. As quin-2 AM enters cells, it is hydrolyzed by intracellular esterases to produce quin-2. Quin-2 binds calcium with a K_d value of 115 nM.¹ It displays high selectivity for calcium, as it is not affected by sodium gradients, membrane potential, or intracellular pH.¹ High affinity probes like quin-2 are ideal for monitoring low levels of calcium, as are found in resting cells.^{1,2} Loadings of up to 2 mM quin-2 are without serious toxic effects, so quin-2 may be used to buffer intracellular calcium transients. Excitation and emission maxima for quin-2 are 339 and 492 nm, respectively.

1. Tsien, R.Y., Pozzan, T., and Rink, T.J. Calcium homeostasis in intact lymphocytes: cytoplasmic free calcium monitored with a new, intracellularly trapped fluorescent indicator. *Cell. Biol.* 94(2):325-334(1982) 2. Minta, A., Kao, J.P., and Tsien, R.Y. Fluorescent indicators for cytosolic calcium based on rhodamine and fluorescein chromophores. *Biol. Chem.* 264(14):8171-8178(1989)

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

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