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Cellstain-Calcein-AM Solution

Item# Unit Size
C396-10 1 ml

Chemical Name: 3',6'-Di(O-acetyl)-4',5'-bis [N,N-bis (carboxymethyl) aminomethyl] fluorescein tetraacetoxymethyl ester, DMSO solution

CAS: 148504-34-1 (Calcein-AM)

Product: 1 mM Calcein-AM DMSO solution (1.0 mg Calcein-AM per 1ml DMSO) **Appearance:** Colorless liquid

MW: 994.86, C₄₈H₄₆N₂O₂₃

Storage Condition: -20°C, protect from light **Shipping Condition:** blue ice

Product Description

Calcein-AM readily passes through the cell membrane of viable cells because of its enhanced hydrophobicity compared to Calcein. After Calcein-AM permeates into the cytoplasm, it is hydrolyzed by esterases to Calcein, which remains inside the cell (Fig. 1). Among other reagents, including BCECF-AM and Carboxy-fluorescein diacetate, Calcein-AM is the most suitable fluorescent probe for staining viable cells because of its low cytotoxicity. Calcein does not inhibit any cellular functions such as proliferation or chemotaxis of lymphocyte. In addition, viability assays using Calcein are reliable and correlate well with the standard ⁵¹Cr-release assay. The excitation and emission wavelengths of calcein are 490 nm and 515 nm, respectively

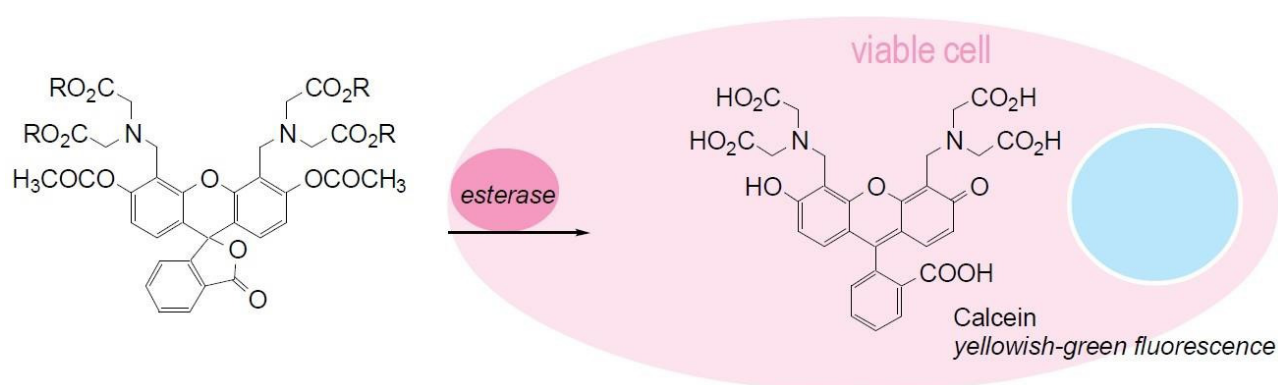


Fig. 1 Cell staining mechanism



CERTIFICATE NO. 8222

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