

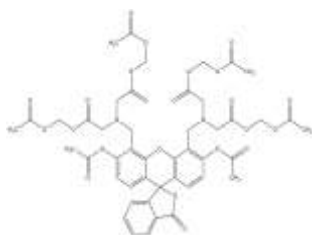
Calcein AM

ALTERNATE NAME: Glycine,N,N'-[[3',6'-bis(acetyloxy)-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthene]-2',7'-diyl]bis(methylene)]bis[N-[2-[(acetyloxy)methoxy]-2-oxoethyl]-,bis[(acetyloxy)methyl] ester; Calcein acetoxymethyl ester

CATALOG #: 1755-50, 250, 1000

AMOUNT: 50 µg, 250 µg (5 x 50 µg), 1 mg

STRUCTURE:



MOLECULAR FORMULA: C₄₆H₄₆N₂O₂₃

MOLECULAR WEIGHT: 994.86

CAS NUMBER: 148504-34-1

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (5 mg/ml)

PURITY: ≥95% by HPLC

STORAGE: Store at -20 °C. Protect from light and moisture

DESCRIPTION: A cell-permeable, non-fluorescent acetoxymethyl ester derivative of Calcein that gets hydrolyzed inside the cell by esterases. The loss of the acetoxymethyl group also enables calcein to readily bind intracellular calcium resulting in a strong yellowish-green fluorescence. It is the best probe for cell viability and cell adhesion due to its greater retention in cells as well and its pH insensitivity in physiological range.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

ApoSENSOR™ ATP Cell Viability Assay Kit (Cat. No. K254-100, 1000)

VisionBlue™ Quick Cell Viability Assay Kit (Cat. No. K303-500, 2500)

Live-Dead Cell Staining Kit (Cat. No. K501-100)

Propidium Iodide (Cat. No. 1056-1)

FOR RESEARCH USE ONLY! Not to be used on humans.