Product name: Calcein AM, fluorescent dye for cell viability

Description: Cell-permeable fluorescent dye for determining cell viability

Biological description: Cell-permeable fluorescent dye for determining cell viability. Hydrolyzes to green-fluorescent calcein on contact with intracellular esterases in live cells. Self-quenches at concentrations below 100 mM.

Purity: > 98%

CAS Number: 148504-34-1

Chemical structure:

![Chemical structure of Calcein AM](image)

Excitation: 495nm

Emission: 515nm

Chemical name: \(N,N'\cdot[3',6'\cdot\text{Bis(acetyloxy)-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthene]-2',7'\cdot\text{diyl}(\text{bis(methylene)})\text{bis}[N\cdot2\cdot(\text{acetyloxy})\text{methoxy}]\cdot2\cdot\text{oxoethyl}]\cdot\text{glycine 1,1'\cdot\text{bis[\text{(acetyloxy)methyl}]}\cdot\text{ester}}\)

Molecular weight: 994.87

Molecular formula: \(C_{46}H_{46}N_2O_{23}\)

PubChem identifier: 390986

Storage instructions: Store at -20°C. It is important to note that this product is reported to be light sensitive. Store in the Dark. Store under desiccating conditions.

Solubility overview: Soluble in DMSO to 5 mM

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and
prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

For more information on AM esters please visit our AM esters FAQ page.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES

CC(=O)OCOC(=O)CN(CC1=C(C=O)C)C3(C4=CC=CC=C4C(=O)O3)C5=CC=C(C=C5O2)OC(=O)C)C6N(CC(=O)OCOC(=O)C)CC(=O)OCOC(=O)C)OC(=O)C)COC(=O)OCOC(=O)C

Source

Synthetic

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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