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DATASHEET

BCECF AM

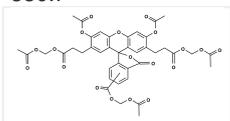
Product overview

| | |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name | BCECF AM |
| Cat No | HB0712 |
| Alternative names | 2',7'-Bis-(2-Carboxyethyl)-5-(and-6)-Carboxyfluorescein, Acetoxymethyl Ester |
| Biological description | Commonly used green fluorescent, intracellular pH indicator. Has a pKa of ~7, and exhibits pH-dependent, dual-excitation properties (Excitation 430/490nm, Emission 535nm) for ratiometric analysis. For HTS applications, BCECF can also be used in non-ratiometric mode using standard fluorescein excitation and emission settings. |
| Applications | fluorescence imaging, live cell imaging |
| Purity | >95% |
| Description | Green fluorescent membrane permeable pH indicator |

Solubility & Handling

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|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage instructions | -20° |
| Solubility overview | DMSO |
| Handling | This compound is light sensitive; exposure to light may affect compound performance. We therefore recommend storing the solid material and any solutions in the dark and protecting from light. |
| Important | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use |

Chemical Data

| | |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical name | 3',6'-bis[(acetyloxy)methoxy]-5(or 6)-[[[(acetyloxy)methoxy]carbonyl]-3-oxo-spiro[isobenzofuran-1(3H),9'-[9H]xanthene]-2',7'-dipropanoic acid, 2',7'-bis[(acetyloxy)methyl] ester |
| Molecular Weight | 880.7 |
| Chemical structure |  |
| Molecular Formula | C ₄₂ H ₄₀ O ₂₁ |
| CAS Number | 17464-70-7 |
| PubChem identifier | 145875767 |
| SMILES | <chem>O=C(C)OCOC1=C(CCC(OCOC(C)=O)=O)C=C(C2(C(C=CC(OCOC(C)=O)=O)=C3)=C3C(O2)=O)C(C(O4)=C5)=CC(CCC(OCOC(C)=O)=O)=C5OCOC(C)=O)C4=C1.O=C(C)OCOC6=C(CCC(OCOC(C)=O)=O)C=C(C7(C(C=C(C(OCOC(C)=O)=O)C=C8)=C8C(O7)=O)C(C(O9)=C%10)=CC(CCC(OCOC(C)=O)=O)=C%10OCOC(C)=O)C9=C6</chem> |
| InChiKey | JBGGWLRWIOHKM-UHFFFAOYSA-N |
| Appearance | Oil |
| Excitation | 430, 490 nm |
| Emission | 535 nm |

References

A rapid method for measuring intracellular pH using BCECF-AM.

Ozkan P et al (2002) Biochimica et biophysica acta 1572

PubMedID

12204343

Use of fluorescent dye BCECF to measure intracellular pH in cortical collecting tubule.

Weiner ID et al (1989) The American journal of physiology 256

PubMedID

2719125

Measurement of intracellular pH in cultured cells by flow cytometry with BCECF-AM.

Franck P et al (1996) Journal of biotechnology 46

PubMedID

8672290
