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DATASHEET

BCECF AM

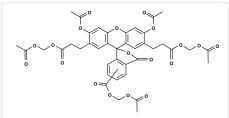
Product overview

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

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	O=C(C)OCOC1=C(CCC(OCOC(C)=O)=O)C=C(C2(C(C=CC(C(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
InChiKey	JBGGWLORWOIHKM-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