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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. For optimal cell loading, F-127 is available either as

a 10% solution in water (HB16503) and 20% solution in DMSO (HB9631).

**Applications** fluorescence imaging, live cell imaging

Purity >95%

**Description** Green fluorescent membrane permeable pH indicator

## Solubility & Handling

Storage instructions -20°
Solubility overview DMSO

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**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.

**Shipping Conditions** Stable for ambient temperature shipping. Follow storage instructions on receipt.

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

Chemical structure

Molecular Formula $C_{42}H_{40}O_{21}$ CAS Number17464-70-7PubChem identifier145875767

C(C)=O)=O)=C%10OCOC(C)=O)C9=C6

InChiKey JBGGWLORWOIHKM-UHFFFAOYSA-N

Appearance Oil
Excitation 430, 490 nm
Emission 535 nm

### 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