

Certificate of Analysis

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Product Name: BCECF-AM **Catalog No.:** 3055 **Batch No.:** 3
CAS Number: 117464-70-7
IUPAC Name: 3',6'-bis(Acetyloxy)-5(or 6)-[[[(acetyloxy)methoxy]carbonyl]-3-oxo-spiro[isobenzofuran-1(3*H*),9'-[9*H*]xanthene]-2',7'-dipropanoic acid 2',7'-bis[(acetyloxy)methyl] ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance: Off-white lyophilised solid
Solubility: Soluble in DMSO
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 97% purity

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

pH indicator. Readily and rapidly diffuses through cell membranes.

Physical and Chemical Properties:

Physical Appearance: Off-white lyophilised solid

Minimum Purity: >95%

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

Soluble in DMSO

BCECF-AM is a mixture of three components. The sum of these three components is >95% by HPLC.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Ozkan and Mutharasan (2002) A rapid method for measuring intracellular pH using BCECF-AM. *Biochim.Biophys.Acta* **1572** 143. PMID: 12204343.

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