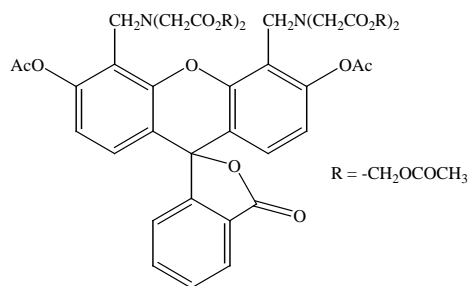


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: Calcein AM**CATALOG #** 80011/80011-3**MOLECULAR INFORMATION:** C₄₆H₄₆N₂O₂₃
MWt: 995**PROPERTIES:**

Color & Form Off-white solid
Purity ≥90% by HPLC
Solubility Soluble in anhydrous DMSO
Absorption/Emission λ_{abs} <300nm (before hydrolysis); λ_{abs}/λ_{em} = 494/517 nm (pH 9, after hydrolysis).
Extinction Coefficient Not determined.

STORAGE AND HANDLING: Stored desiccated at -20 °C upon receiving. Protect from light, especially when in solution.

APPLICATION: Calcein AM is a widely used green fluorescent cell marker. Calcein AM is membrane-permeant and thus can be introduced into cells via incubation. Once inside the cells, calcein AM is hydrolyzed by endogenous esterase into the highly negatively charged green fluorescent calcein, which is retained in the cytoplasm. Calcein AM is an excellent tool for the studies of cell membrane integrity and for long term cell tracing.

Ref.: 1) *J. Immunol. Meth.* **177**, 101(1994); 2) *J. Immunol. Meth.* **172**, 227(1994); 3) *J. Immunol. Meth.* **172**, 115(1994); 4) *Human Immunol.* **37**, 264(1993).

TOXICITY: Unknown

FIRST AID:	Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.
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