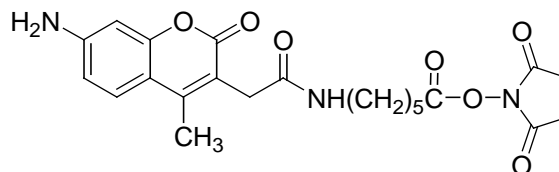


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: 6-((7-amino-4-methylcoumarin-3-acetyl) amino)hexanoic acid, succinimidyl ester (AMCA-X SE)

CATALOG # 90077

MOLECULAR INFORMATION: C₂₂H₂₅N₃O₇
Mwt: 443.46

**PROPERTIES:**

Color & Form Off-white solid
Solubility Soluble in DMSO or DMF
Absorption/Emission 353/442nm (MeOH)
Extinction Coefficient 19,000

STORAGE AND HANDLING: Store desiccated at -20 °C. Protect from light, especially in solution.

APPLICATION: AMCA-X SE is an amine-reactive blue fluorescent dye widely used for labeling proteins or other biomolecules that contain a primary or secondary aliphatic amine. A stock solution of the dye can be made in anhydrous DMF or DMSO. The coupling reaction is usually carried out in a pH ~8.5 buffer (for example, 0.1-0.2 M sodium bicarbonate buffer). Alternatively, the coupling reaction may also be carried out in an organic solvent for amino compounds that are insoluble in aqueous solution.

Ref. 1) *J Immunol* **164**, 5236(2000); 2) *J Biol Chem* **276**, 10366(2001).

TOXICITY: Not established. Not listed by NTP, IARC or OSHA.

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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