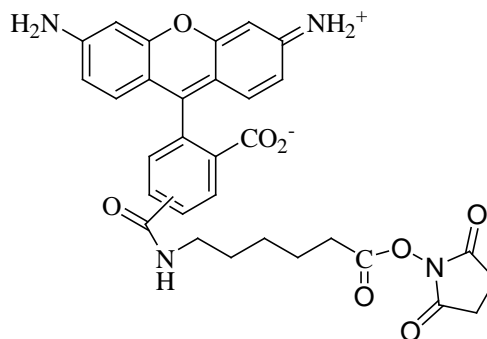


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: **5-(and-6)-Carboxyrhodamine, 110-X, succinimidyl ester**
(5(6)-CR110-X, SE)

CATALOG # 90003

MOLECULAR INFORMATION: C₃₁H₂₈N₄O₈
Mwt: 584.58

**PROPERTIES:**

Color & Form Orange red solid
Purity >90% by TLC
Solubility Soluble in DMSO, DMF
Absorption/Emission 502/524nm (MeOH)
Extinction Coefficient 81,000

STORAGE AND HANDLING: Store desiccated at -20 °C and protect from light.

APPLICATION:

5-(and-6)-Carboxyrhodamine 110-X, succinimidyl ester readily couples to a primary or secondary amine. The dye is a superior alternative to 5(6)-SFX because of its exceptional photostability and fluorescence insensitivity to pH (4-9). See figure below for photostability comparison with other dyes.

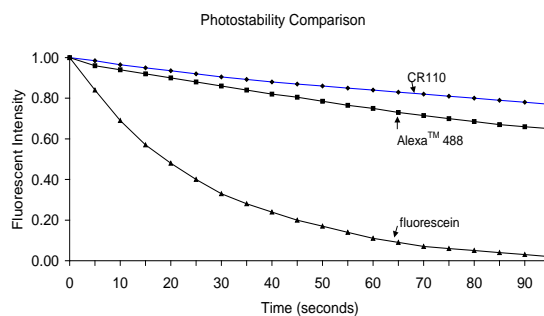


Figure 7.6 Photostability comparison of carboxyrhodamine 110-, fluorescein- and Alexa™ 488. Carboxyrhodamine 110 is more photostable than fluorescein and Alexa™ 488.

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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