

46117 Landing Parkway, Fremont, CA 94538 U.S.A. Tel: 1-510-265-1027; Fax: 1-510-265-1352

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PRODUCT AND SAFETY DATA SHEET

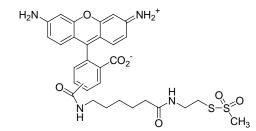
PRODUCT NAME:

MTS-CR110-X (MTS-5-(and-6)-carboxyrhodamine 110-X, mixed isomers)

CATALOG #

 $C_{30}H_{32}N_4O_7S_2$

91036



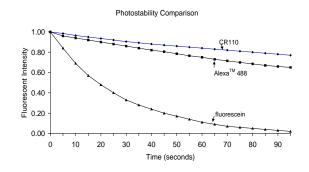
PROPERTIES:

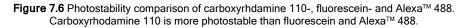
APPLICATION:

| Color & Form | Orange red solid |
|---------------------|-----------------------|
| Purity | >90% by TLC |
| Solubility | Soluble in DMSO, I |
| Absorption/Emission | 502/524nm (MeOH) |
| Extinction | 77,000 |
| Coefficient | |
| STORAGE AND | Store desiccated at - |
| HANDLING: | |
| | |

>90% by TLC Soluble in DMSO, DMF 502/524nm (MeOH) 77,000 Store desiccated at -20 °C and protect from light.

MTS-CR110-X is a green fluorescent thiol-reactive dye. It is similar to MTS-CR110 (#91035) except that this product has a X spacer molecule between the dye and the MTS reactive group. CR110 (5-(and-6)-carboxyrhodamine 110) has absorption and emission spectra (502/524 nm) similar to those of fluorescein (495/519 nm) but its photostability is far better than that of the latter. Thus, MTS-CR110 is a superior green fluorescent dye for labeling thiols. The linker molecule may enhance fluorescence when the dye is attached to proteins. See figure below for photostability comparison with other dyes.





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| 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. |
| | |

Disclaimer: *Materials from Biotium are sold for research use only, and are not intended for food, drug, household, or cosmetic use. Biotium is not liable for any damage resulting from handling or contact with this product.*