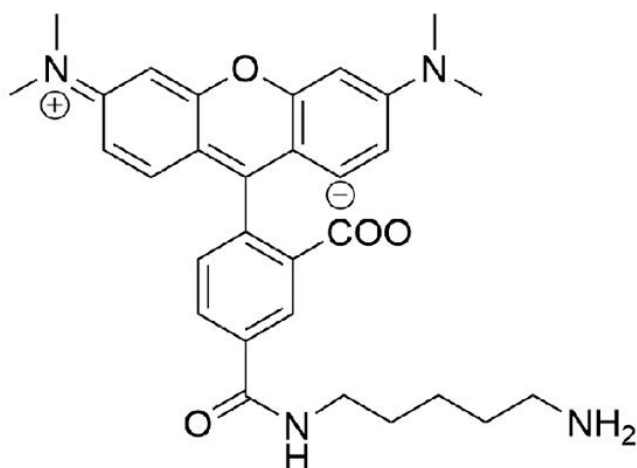


## 5-TAMRA CADAVERINE

**SKU:** FP-1261



### Description

**488/532**



Laser  
line

**TRITC**



Common  
filter set

**556**



Excitation  
max

**573**

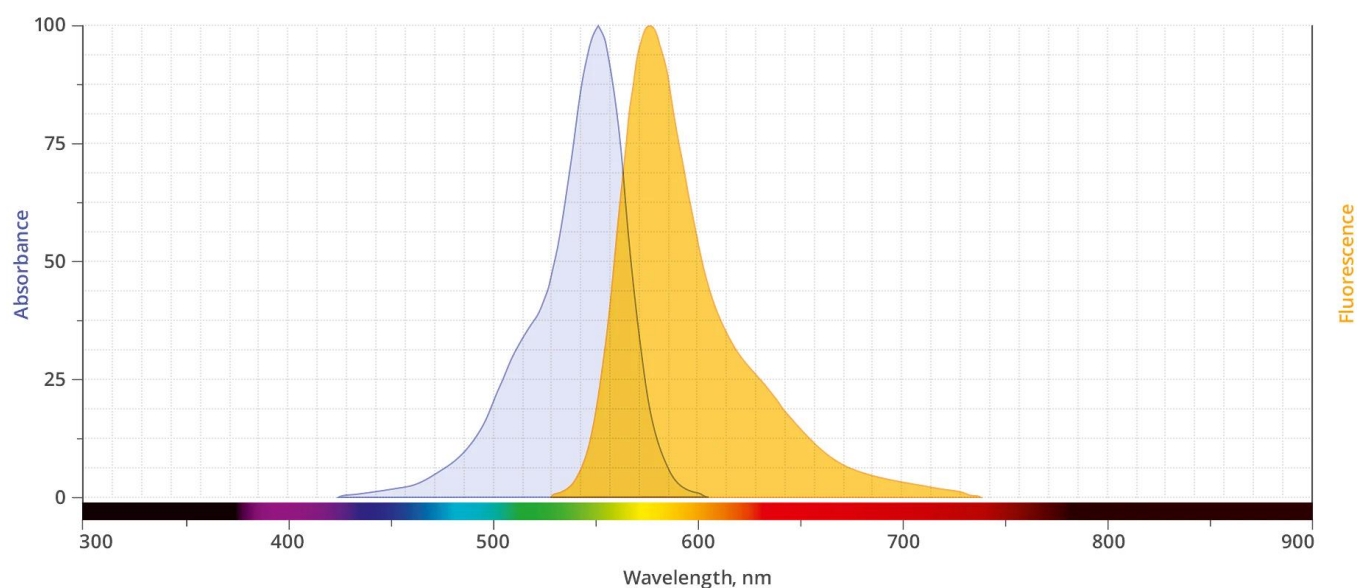


Emission  
max

5-TAMRA cadaverine can be used to modify carboxylic acid groups in the presence of activators (e.g. EDC, or DCC) or activated esters (e.g. NHS esters) through a stable amide bond. It also can be reversibly coupled to aldehydes and ketones to form a Schiff base – which can be reduced to a generate stable amine derivative by sodium borohydride ( $\text{NaBH}_4$ ) or sodium cyanoborohydride ( $\text{NaCNBH}_3$ ). Although the mixed isomers of 5(6)-TAMRA cadaverine is a preferred, routinely used orange-fluorescent dye for staining proteins, it is rarely used for labeling peptides and nucleotides. Purification of 5(6)-TAMRA labeled peptide and nucleotides might be troublesome due to significant signal broadening in HPLC purification. Peptides and nucleotides labeled with

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a single isomer TAMRA usually give better resolution in HPLC purification that is often required in the conjugation processes.



Abs/Em Spectra

## Specifications

<b>Unit Size</b>	5 mg, 25 mg, 100 mg, 1000 mg
<b>Reactivity</b>	Primary amines
<b>Abs/Em Maxima</b>	553/575 nm
<b>Extinction coefficient</b>	91,000 cm <sup>-1</sup> M <sup>-1</sup>
<b>Solubility</b>	DMSO, DMF, MeOH
<b>Spectrally similar dyes</b>	Alexa Fluor® 546, TAMRA, CF™ 543, MB™ 543
<b>Molecular weight</b>	627.24 (TFA salt)
<b>Storage Conditions</b>	-20°C.
<b>Shipping Conditions</b>	Ambient temperature

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