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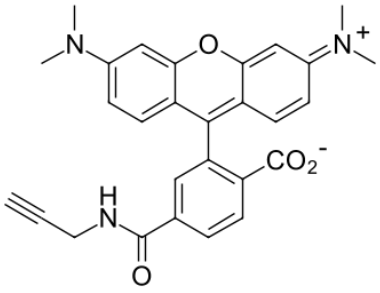
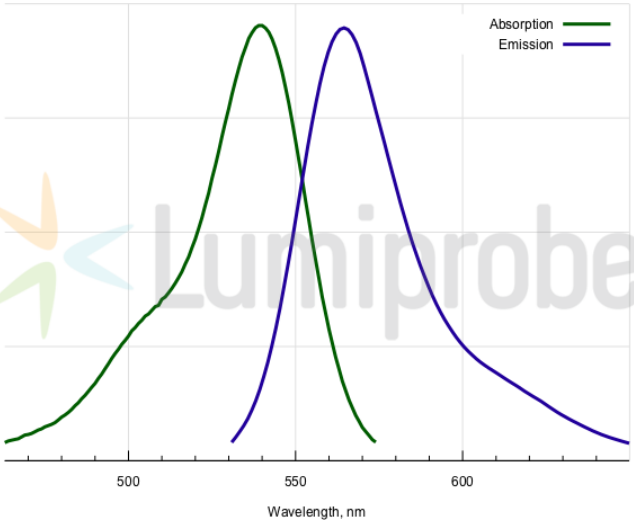
TAMRA alkyne, 6-isomer

Tetramethylrhodamine (TAMRA) alkyne, pure 6-isomer. TAMRA is a popular dye that is used in qPCR and other applications. It forms a FRET pair with FAM (serving as an acceptor).

This product is a terminal alkyne for copper-catalyzed Click chemistry. It can be conjugated with azide groups using CuAAc reaction.



Struture of 6-TAMRA alkyne



Absorption and emission spectra of 6-TAMRA

General properties

Appearance:	dark colored solid
Mass spec M+ increment:	467.2
Molecular weight:	467.52
Molecular formula:	$C_{28}H_{25}N_3O_4$
Solubility:	good in DMF, DMSO, alcohols
Quality control:	NMR ^1H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation maximum, nm:	541
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	84000
Emission maximum, nm:	567
Fluorescence quantum yield:	0.1
CF_{260}:	0.34
CF_{280}:	0.17