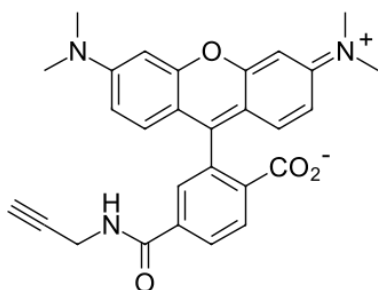


TAMRA alkyne, 6-isomer

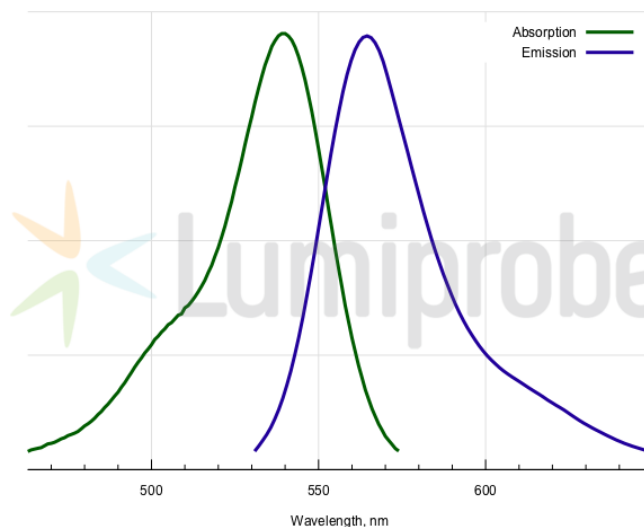
<http://www.lumiprobe.com/p/tamra-alkyne-6>

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.



Structure 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
CAS number:	1352649-44-5
Molecular formula:	C ₂₈ H ₂₅ N ₃ O ₄
Solubility:	good in DMF, DMSO, alcohols
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	541
ε, L·mol ⁻¹ ·cm ⁻¹ :	84000
Emission maximum, nm:	567
Fluorescence quantum yield:	0.1
CF ₂₆₀ :	0.34
CF ₂₈₀ :	0.17