

## TAMRA azide, 5-isomer

<http://www.lumiprobe.com/p/tamra-azide-5>

TAMRA (TMR, tetramethylrhodamine) azide, solid compound, and 10 mM solution in DMSO, labeling reagent for Click Chemistry. Pure 5-isomer.

TAMRA is often used as FRET acceptor for [FAM](#) fluorophore.

Can replace DyLight 549.



**5-TAMRA azide structure**



**Absorption and emission spectra of 5-TAMRA**

### General properties

Appearance:	violet solid / solution
Mass spec M+ increment:	512.2
Molecular weight:	512.56
CAS number:	825651-66-9
Molecular formula:	$C_{28}H_{28}N_6O_4$
Solubility:	good in polar organic solvents (DMF, DMSO, alcohols), low in water
Quality control:	NMR $^1H$ , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light.

### Spectral properties

Excitation/absorption maximum, nm:	541
$\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ :	84000
Emission maximum, nm:	567
Fluorescence quantum yield:	0.1
$CF_{260}$ :	0.32
$CF_{280}$ :	0.19