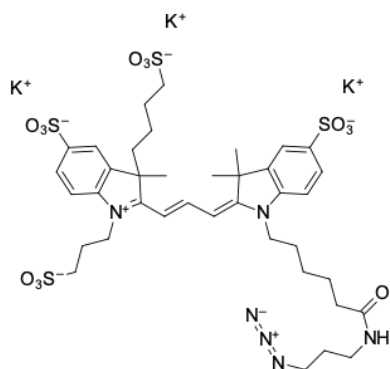


AF 555 azide

<http://www.lumiprobe.com/p/af-555-azide>

AF 555 dye azide for click chemistry conjugation with terminal alkynes via a [copper-catalyzed click reaction](#) or strained cyclooctynes via a [copper-free click reaction](#).

AF 555 is a hydrophilic fluorophore with high fluorescence quantum yield and high photostability, an alternative to tetramethylrhodamine (TAMRA, TMR) or Cyanine3 dyes. The dye is useful for many applications, including cytometry and microscopy.



Structure of AF 555 azide

General properties

Appearance:	dark red solid
Molecular weight:	1043.40
Molecular formula:	$C_{38}H_{49}K_3N_6O_{13}S_4$
Solubility:	good in water, DMF, DMSO
Quality control:	NMR 1H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.

Spectral properties

Excitation/absorption maximum, nm:	552
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	152000
Emission maximum, nm:	566
Fluorescence quantum yield:	0.14