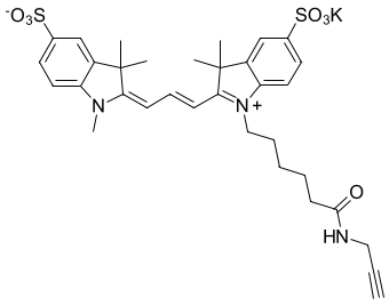
Lumiprobe Corporation
201 International Circle, Suite 135
Hunt Valley, Maryland 21030
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

sulfo-Cyanine3 alkyne

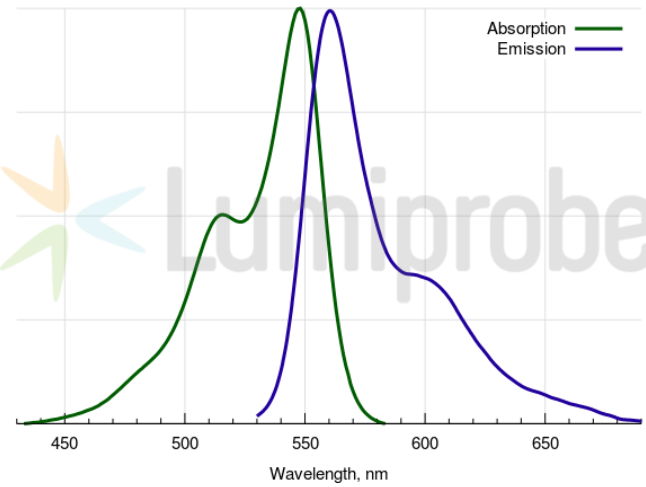
http://www.lumiprobe.com/p/sulfo-cy3-alkyne

A water-soluble alkyne dye for copper-catalyzed click chemistry, an analog of Cy3® alkyne.

sulfo-Cyanine3 is a fluorophore compatible with a wide range of fluorescent scanners, imagers, microscopes, and other instrumentation. It is a bright and photostable dye, which is also easily detected in gels by the naked eye in low amounts (<1 nmol).



Structure of sulfo-Cyanine3.5 NHS ester



Absorbance and emission spectra of sulfo-Cyanine3

General properties

Appearance:	dark red powder
Mass spec M+ increment:	653.2
Molecular weight:	691.90
CAS number:	2055138-87-7 (inner salt); 2055138-88-8 (sodium salt)
Molecular formula:	$C_{33}H_{38}KN_3O_7S_2$
Solubility:	soluble in water (0.57 M = 40 g/L), DMSO, DMF
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.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

Excitation/absorption maximum, nm:	548
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	162000
Emission maximum, nm:	563
Fluorescence quantum yield:	0.1
CF_{260}:	0.03
CF_{280}:	0.06

Cy® is a trademark of GE Healthcare.