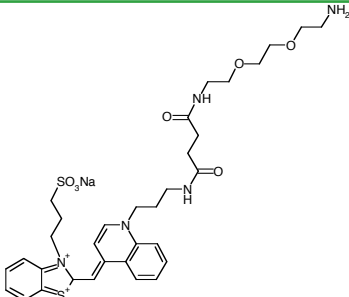
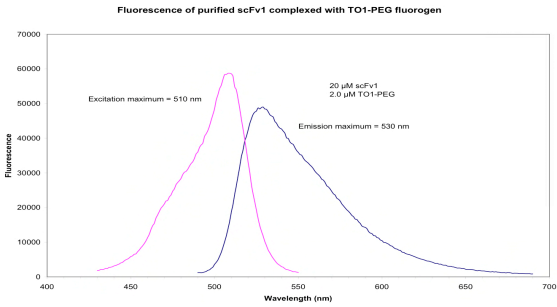


TO1-2p Information

Molecular Biosensors and Imaging Center
 Technology Center for Networks and Pathways
 Carnegie Mellon University

Dye Molecule Information Sheet:

Physical Properties		Chemical Structure	C ₃₄ H ₄₇ N ₅ O ₄ S
Molecular Weight	621.85 g/mol		
Storage	Store at 2-8° C in dark.		
Solubility:	> 10 mg/mL in water, Methanol		

Spectral Properties		Excitation/Emission Spectra
Extinction Coefficient	Est 77,000 M ⁻¹ cm ⁻¹	
Emission Maximum	530 nm	
Quantum Yield (free)	TBD	
Quantum Yield (bound)	TBD	
Note: The spectral properties are pH dependent.		

Biochemical Properties		Affinity Curve for scFv1 with TO1-2P	
mg Dye / mg scFv	TBD		
Affinity	scFv1: 355 nM, AM2-2: 3.1 nM		
This dye is cell impermeant. It also binds to dead cells, and any cells with compromised membranes at concentrations above 1 μM.			

For more information	
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