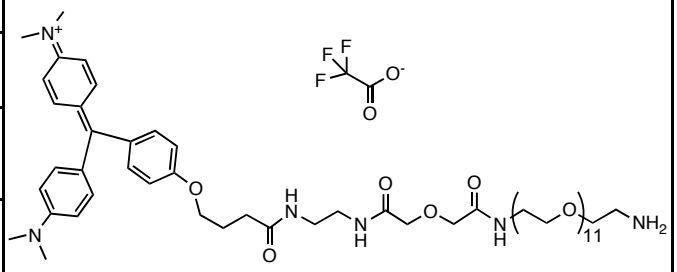
MG-11p-NH2 Info

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

Physical Properties

Formula Weight	1228 g/mol
Chemical Formula	$C_{57}H_{91}N_6O_{16}\bullet C_2F_3O_2$
Solubility	>10 mg/mL in Water, Methanol
Storage	2-8^0 C in dark

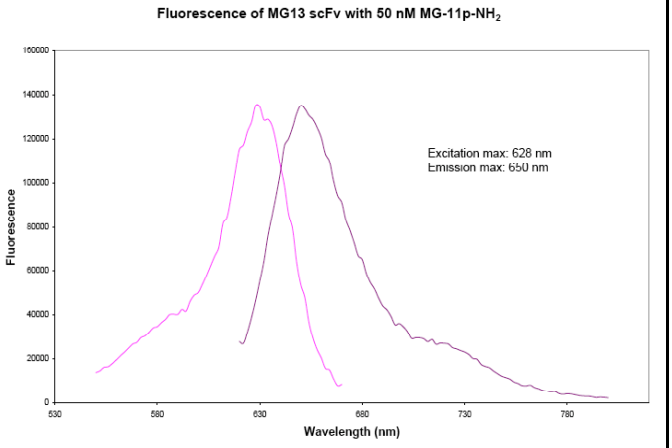
Chemical Structure



Spectral Properties

Extinction Coeff.	~150,000 $M^{-1}cm^{-1}$ (est)	
Ex/Em Maxima	Free	TBD/TBD nm
	MG-13 Bound	628/~650 nm
	MG-16 Bound	641/~660 nm
Quantum Yield	Free	TBD
	Bound	TBD
Fold Enhancement		>500

Excitation/Emission Spectra



Biochemical Properties

mol Dye / mol scFv	TBD
Affinity	**MG-13**: ~3 nM **MG-16**: ~3 nM

This dye is expected to be cell impermeant—but we're not certain about that yet. It is typically non-fluorescent unless bound to an appropriate activating molecule, such as the companion scFv's. We have seen weak fluorescence in permeabilized yeast cells at 100 nM concentrations.

For more information

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