

MG-Ester Info

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

Physical Properties		Chemical Structure	
Formula Weight	572.6 g/mol		
Chemical Formula	$C_{29}H_{35}N_2O_3 \cdot C_2F_3O_2$		
Solubility	>10 mg/mL in Water, Methanol		
Storage	2-8 ^o C in dark		
Spectral Properties		Excitation/Emission Spectra	
Extinction Coeff.	74,250 M ⁻¹ cm ⁻¹ (607 nm)		
Ex/Em Maxima	MG-1 (H6) Bound 635/656 nm MG-13 (HL4) Bound 629/649 nm MG-16 (L5) Bound 640/668 nm		
Quantum Yield	Free <0.000015 Bound MG1 (H6): 0.25 MG13 (HL4) 0.16 MG16 (L5): 0.05		
Fold Enhancement	MG1 (H6): 18000 MG13 (HL4): 15700 MG16 (L5): 4100		
Biochemical Properties			
mol Dye / mol scFv	TBD		
Affinity (Cell Surface)	MG-1: 7.5 nM MG-13: ~3.2 nM MG-16: ~1.2 nM		
This dye is cell permeant, and will label proteins expressed in the secretory and biosynthetic pathways, as well as perhaps the endocytic compartments.			
For more information			
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