Product Data Sheet

Product Name: Janelia Fluor 646, Azide
Cat. No.: GC50647

Chemical Properties

Cas. No.			
SMILES	O=C(NCCOCCOCCOCCN=[N+]=[N-])C1=CC=C(C([O-])=O)C(C(C2=CC=C(N3CCC3)C=C2[Si]4(C)C)=C(C=C/5)C4=CC5=[N+]6CCC\6)=C1		
Formula	$C_{37}H_{44}N_6O_6Si$	M.Wt	696.88
Solubility	DMSO : 100 mg/mL (143.50 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Janelia Fluor 646, Azide		

Background

Red fluorogenic fluorescent dye, supplied as an azide for click chemistry. Suitable for confocal fluorescent imaging and super resolution microscopy (SRM) techniques such as dSTORM (live and fixed cells) and STED imaging. Can be multiplexed for two color imaging with Janelia Fluor® 549 SE . Cell permeable. Excitation maximum = 646 nm; emission maximum = 664 nm. Quantum yield = 0.54; Max. extinction coefficient = 152,000 M-1cm-1 (measured in ethanol plus 0.1% TFA); A280 correction factor is 0.19. To measure the absorbance spectrum of this dye we recommend the following solvent: ethanol or trifluoroethanol plus 0.1% TFA. We also offer Janelia Fluor® conjugated antibodies and custom conjugation services with our sister company Novus Biologicals.

Grimm et al (2015) A general method to improve fluorophores for live-cell and single-molecule microscopy. Nat Methods. 12 244 PMID:25599551

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