Product Data Sheet

Product Name: Janelia Fluor 549, SE
Cat. No.: GC50359

Chemical Properties

Cas. No.	1811539-32-8		
SMILES	O=C(ON1C(CCC1=O)=O)C2=CC=C(C([O-])=O)C(C(C3=CC=C(N4CCC4)C=C3O5)=C(C=C/6)C5=CC6=[N+]7CCC\7)=C2		
Formula	$C_{31}H_{25}N_3O_7$	M.Wt	551.56
Solubility	Soluble in DMSO	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 549, SE		

Background

Yellow fluorescent dye; supplied as an NHS ester for coupling to primary amine groups. NHS ester can be converted to relevant substrate for use in self-labeling tag systems, e.g. HaloTag® and SNAP-tag®. Suitable for confocal fluorescent imaging and super resolution microscopy (SRM) techniques, such as dSTORM (live and fixed cells) and STED. Also suitable for flow cytometry. Cell permeable. Excitation maximum = 549 nm; emission maximum = 571 nm; Quantum yield = 0.88; Extinction coefficient = 101,000 M-1cm-1; A280 correction factor is 0.169. We also offer Janelia Fluor® conjugated antibodies and custom conjugation services with our sister company Novus Biologicals. HaloTag is a trademark of Promega Corporation, and SNAP-tag is a trademark of New England BioLabs, Inc.

Grimm et al (2015) A general method to improve fluorophores for live-cell and single-molecule microscopy. Nat.Methods 12 244 PMID:25599551 |Deng et al (2015) CASFISH: CRISPR/Cas9-mediated in situ labeling of genomic loci in fixed cells. Proc.Natl.Acad.Sci.USA. 112 11870 PMID:26324940 |Knight et al (2015) Dynamics of CRISPR-Cas9 genome interrogation in living cells. Science 350 823 PMID:26564855

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|Legant et al (2016) High-density three-dimensional localization microscopy across large volumes. Nat.Methods 13 359 PMID:26950745

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