
Product Data Sheet

Product Name: Janelia Fluor 585, SE

Cat. No.: GC50443

Chemical Properties

Cas. No. 1811539-88-4

SMILES O=C(ON1C(CCC1=O)=O)C2=CC=C(C([O-])=O)C(C(C3=CC=C(N4CC(F)(F)C4)C=C3C5(C)C)=C(C=C/6)C5=CC6=[N+]7CC(F)(F)C\7)=C2

Formula	C ₃₄ H ₂₇ F ₄ N ₃ O ₆	M.Wt	649.6
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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

Background

Orange fluorogenic 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). Cell permeable. Excitation maximum = 585 nm; emission maximum = 609 nm; Quantum yield = 0.78; Max extinction coefficient = 156,000 M⁻¹cm⁻¹ (measured in Ethanol or TFE plus 0.1% TFA); Correction factor = 0.0990. Exhibits low non-specific background staining. 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. HaloTag is a trademark of Promega Corporation, and SNAP-tag is a trademark of New England BioLabs, Inc.

Grimm et al (2017) A general method to fine-tune fluorophores for live-cell and in vivo imaging. Nat.Methods 14 987 PMID:28869757

Caution: Product has not been fully validated for medical applications. For research use only.

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