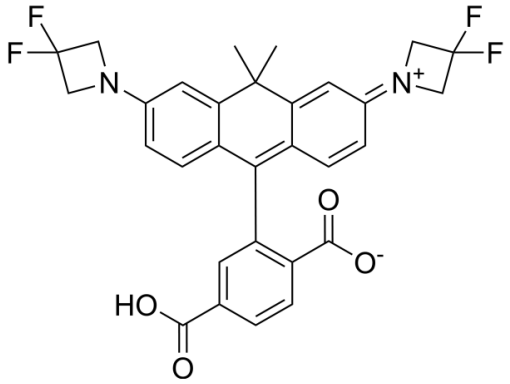
Product Data Sheet

Product Name: Janelia Fluor® 585
Cat. No.: GC80344

Chemical Properties

Cas. No.	1811539-86-2		
Formula	$C_{30}H_{24}F_4N_2O_4$	M.Wt	552.52
Solubility	DMSO: 100 mg/mL (180.99 mM; Need ultrasonic)	Storage	Store at 4°C, away from moisture and light
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

Janelia Fluor® 585 (JF585) is a fluorescent dye with high brightness, cell permeability, and blood-brain barrier permeability. Janelia Fluor® 585 can be used in combination with other Janelia Fluor dyes to support multicolor cell imaging experiments. Its excitation peak is at 585 nM and emission peak is at 609 nM [1].

Caution: Product has not been fully validated for medical applications. For research use only.
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In Vivo, Janelia Fluor® 585-HaloTag ligand (100 nM; intravenous injection, tail vein; intraperitoneal injection) exhibits blood-brain barrier permeability in mice, provides long-lasting neuronal labeling for up to 2 weeks, and does not significantly alter spontaneous neuronal activity[1].

In Vitro, Janelia Fluor® 585 is a carbocyanine dye with orange spectral properties and high quantum yield, which shows a strong preference for the non-fluorescent lactone form in aqueous solutions[1].

References:
[1]. Grimm JB, et al. A general method to fine-tune fluorophores for live-cell and in vivo imaging. Nature methods. 2017 Oct;14(10):987-994.

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