
Product Data Sheet

Product Name: Janelia Fluor 549, free acid

Cat. No.: GC50479

Chemical Properties

Cas. No. 2245946-45-4

SMILES OC(C1=CC=C(C(C(C2=CC=C(C=C2OC3=C4)N5CCC5)=C3C=CC4=[N+])6CCC/6)=C1)C([O-])=O)=O.FC(F)(F)C(O)=O

Formula $C_{27}H_{22}N_2O_5 \cdot C_2HF_3O_2$ M.Wt 568.5

Solubility DMSO : 25 mg/mL (43.98 mM; Need ultrasonic) Storage Store at -20°C

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

Yellow fluorescent dye; supplied as a free acid. Used in protocol (2017 Grimm et al - see references below) for the synthesis of Janelia Fluor® HaloTag® and SNAP-Tag® ligands, for use in live cell imaging experiments. Also suitable for flow cytometry. Excitation maximum = 549 nm; emission maximum = 571 nm; Quantum yield = 0.88; Extinction coefficient = 101,000 M⁻¹cm⁻¹.

Grimm et al (2015) A general method to improve fluorophores for live-cell and single-molecule microscopy. Nat. Methods 12 244 PMID:25599551 |Grimm et al (2017) Synthesis of Janelia Fluor HaloTag and SNAP-Tag Ligands and Their Use in Cellular Imaging Experiments. Methods Mol.Biol. 1663 179 PMID:28924668

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

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