
Product Data Sheet

Product Name: Janelia Fluor 549, Maleimide

Cat. No.: GC50476

Chemical Properties

Cas. No.

SMILES O=C(NCCN1C(C=CC1=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.[CF3]C(O)=O

Formula $C_{33}H_{28}N_4O_6 \cdot C_2HF_3O_2$ M.Wt 690.63

Solubility Soluble in DMSO 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 with a maleimide reactive group for conjugation (thiol reactivity). 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.

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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
