Certificate of Analysis

Product Name: **Janelia Fluor® 525, SE** **Catalog No.: 6296** **Batch No.: 1**

IUPAC Name: 3,6-Di-1-(3,3-difluoroazetidinyl)-9-[2-carboxy-5-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]phenyl]xanthylium, inner salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{31}H_{21}F_4N_3O_7$

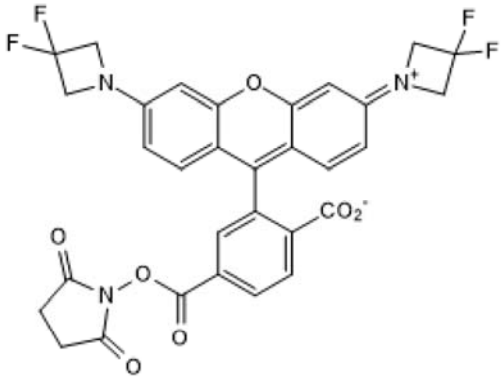
Batch Molecular Weight: 623.51

Physical Appearance: Pink solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.75 (DCM/MeOH/AcOH, 9/1/0.1)

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

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Description:

Yellow fluorescent dye; supplied as an NHS ester for coupling to primary amine groups. Compatible with 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). Can be multiplexed for two color imaging with Janelia Fluor® 635 SE (Cat. No. 6419). Cell permeable. Excitation maximum = 525 nm; emission maximum = 549 nm; quantum yield = 0.91; Extinction coefficient = 122,000 $M^{-1}cm^{-1}$; Correction factor A280 = 0.185. We also offer Janelia Fluor® conjugated antibodies and custom conjugation services with ... Please see product datasheet on www.tocris.com for full description.

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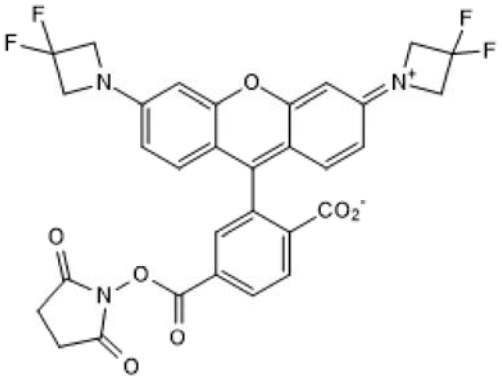

Storage: Store at -20°C. This product is packaged under an inert atmosphere.

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus

References:

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