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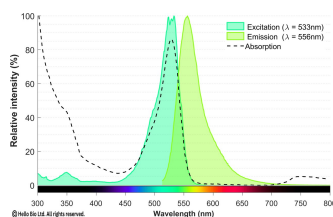
DATASHEET

Janelia Fluor® 525, free acid

Product overview

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|-------------------------------|--|
| Name | Janelia Fluor® 525, free acid |
| Cat No | HB7173 |
| Biological description | Cell-permeable, yellow fluorescent dye with a free acid reactive group. Used for the synthesis of Janelia Fluor® HaloTag® and SNAP-tag® ligands. Suitable for confocal microscopy and super resolution microscopy (SRM) including techniques such as dSTORM (both live and fixed cells). Can also be multiplexed with Janelia Fluor® 635 SE for two color imaging. |
| Biological action | Spectrally similar dyes: Alexa Fluor® 532, Alexa Fluor® 514, Atto 532, CF514, CF532 |
| Purity | Dyes & stains >95% |
| Description | Yellow dye supplied as a free acid. Suitable for super resolution microscopy (e.g. dSTORM), confocal microscopy and live cell imaging. |

Images



Biological Data

| | |
|--------------------------|---|
| Application notes | #Protocol 1: Measurement of excitation and emission spectra of Janelia Fluor® 525, free acid <ul style="list-style-type: none">Janelia Fluor® 525, free acid was prepared at 1µm in PBS.Spectra were generated on a Tecan Infinite M200 PRO using the following parameters:<ul style="list-style-type: none">Excitation: Recording at 618nm while exciting between 280nm and 590nmEmission: Exciting at 484nm while recording between 510nm and 800nmAbsorbance: Measured between 300 and 800nm |
|--------------------------|---|

Solubility & Handling

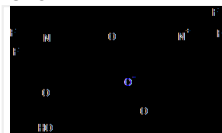
| | |
|-----------------------------|--|
| Storage instructions | -20°C |
| Solubility overview | Soluble in DMSO |
| Important | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use |

Chemical Data

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|----------------------|--|
| Chemical name | 3,6-Di-1-(3,3-difluoroazetidiny)-9-[2,5-dicarboxy-phenyl]xanthylum, inner salt |
|----------------------|--|

Molecular Weight
Chemical structure

526.44



Molecular Formula
SMILES

$C_{27}H_{19}F_4N_2O_5$

O=C(O)c6cc(C=1c4ccc(cc4OC2=CC(\C=CC=12)=[N+]3/CC(F)(F)C3)N5CC(F)(F)C5)c(cc6)C([O-])=O

Source
InChiKey

Synthetic

NEMQHYPGUMYWUDT-UHFFFAOYSA-N

Licensing details

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

References

A general method to fine-tune fluorophores for live-cell and in vivo imaging.

Grimm JB et al (2017) Nature methods 14

PubMedID

[28869757](#)
