

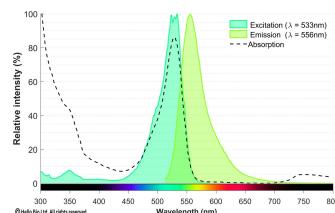
DATASHEET

Janelia Fluor® 525, free acid

Product overview

| | |
|-------------------------------|--|
| 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 | Dyes & stains |
| Purity | >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

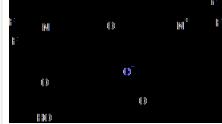
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|--------------------------|---|
| Application notes | #Protocol 1: Measurement of excitation and emission spectra of Janelia Fluor® 525, free acid |
|--------------------------|---|

- Janelia Fluor® 525, free acid was prepared at 1 μm in PBS.
- Spectra were generated on a Tecan Infinite M200 PRO using the following parameters:
 - Excitation: Recording at 618nm while exciting between 280nm and 590nm
 - Emission: Exciting at 484nm while recording between 510nm and 800nm
 - Absorbance: Measured between 300 and 800nm

Solubility & Handling

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|-----------------------------|--|
| 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-difluoroazetidinyl)-9-[2,5-dicarboxy-phenyl]xanthylium, inner salt |
| Molecular Weight | 526.44 |
| Chemical structure |  |
| Molecular Formula | C ₂₇ H ₁₉ F ₄ N ₂ O ₅ |
| SMILES | 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 | Synthetic |
| InChiKey | NEMQHPGUMYWUDT-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](#)
