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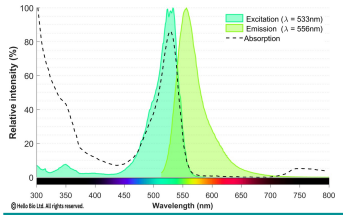
DATASHEET

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.
	Spectrally similar dyes: Alexa Fluor® 532, Alexa Fluor® 514, Atto 532, CF514, CF532
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

Application notes

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

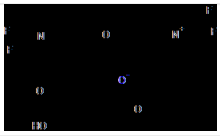
- Janelia Fluor ® 525, free acid was prepared at 1µm in PBS.
- Spectra were generated on a Tecan Infinite M200 PRO using the following parameters:
  - Excitation: Recording at 618nm while exciting between 280nm and 590nm
  - Emission: Exciting at 484nm while recording between 510nm and 800nm
  - Absorbance: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

Solubility & Handling

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

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	$C_{27}H_{19}F_4N_2O_5$
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