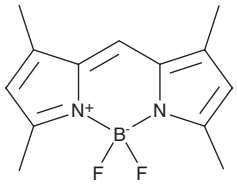
PRODUCT INFORMATION

BODIPY 505/515

Item No. 25893

CAS Registry No.:	21658-70-8
Formal Name:	(T-4)-[2-[(3,5-dimethyl-2H-pyrrol-2-ylidene-κN)methyl]-3,5-dimethyl-1H-pyrrolato-κN]difluoro-boron
MF:	$C_{13}H_{15}BF_2N_2$
FW:	248.1
Purity:	≥98%
UV/Vis.:	λ_{max}: 228, 363, 504 nm
Ex./Em. Max:	505/515 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BODIPY 505/515 is supplied as a crystalline solid. A stock solution may be made by dissolving the BODIPY 505/515 in the solvent of choice, which should be purged with an inert gas. BODIPY 505/515 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of BODIPY 505/515 in these solvents is approximately 1.7 and 25 mg/ml, respectively.

BODIPY 505/515 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BODIPY 505/515 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. BODIPY 505/515 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

BODIPY 505/515 is a lipophilic fluorescent probe that localizes to intracellular lipid bodies and has been used to label lipid droplets.[1] BODIPY 505/515 has been used for electron, epifluorescent, and confocal microscopy, as well as flow cytometry applications in various algae species.[1,2] It displays excitation/emission maxima of 505/515 nm, respectively, and has been used for live and fixed cell applications.

References

1. Velmurugan, N., Sathishkumar, Y., Yim, S.S., *et al.* Study of cellular development and intracellular lipid bodies accumulation in the thraustochytrid *Aurantiochytrium* sp. KRS101. *Bioresour. Technol.* **161**, 149-154 (2014).
2. Rumin, J., Bonnefond, H., Saint-Jean, B., *et al.* The use of fluorescent Nile red and BODIPY for lipid measurement in microalgae. *Biotechnol. Biofuels* **8:42** (2015).

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