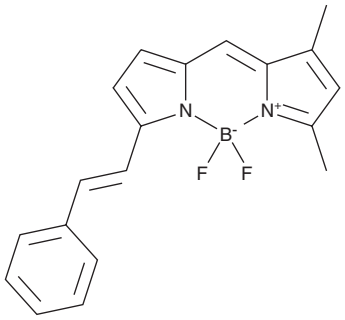
PRODUCT INFORMATION

STY-BODIPY

Item No. 27089

CAS Registry No.:	2383063-37-2
Formal Name:	(T-4)-[2-[(3,5-dimethyl-2H-pyrrol-2-ylidene-κN) methyl]-5-[(1E)-2-phenylethenyl]-1H-pyrrolato-κN]difluoro-boron
Synonyms:	Styrene-BODIPY, Styrene-Conjugated BODIPY
MF:	$C_{19}H_{17}BF_2N_2$
FW:	322.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 240, 313, 562 nm
Abs. Max:	571 nm
Supplied as:	A solution in benzene
Storage:	-20°C
Stability:	≥1 year



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

Description

STY-BODIPY is a styrene-conjugated fluorogenic probe for radical-trapping antioxidant (RTA) activity.[1] Co-autoxidation of the STY-BODIPY signal carrier and a hydrocarbon co-substrate can be quantified by monitoring the loss of absorbance at 571 nm. STY-BODIPY has been used to measure the activity of RTAs, as well as the kinetics and stoichiometry of RTA reactions in cell-free assays.[1-3]

References

1. Haidasz, E.A., Van Kessel, A.T.M., and Pratt, D.A. A continuous visible light spectrophotometric approach to accurately determine the reactivity of radical-trapping antioxidants. *J. Org. Chem.* **81(3),** 737-744 (2016).
2. Shah, R., Shchepinov, M.S., and Pratt, D.A. Resolving the role of lipoxygenases in the initiation and execution of ferroptosis. *ACS Cent. Sci.* **4(3),** 387-396 (2018).
3. Chauvin, J.-P.R., Haidasz, E.A., Griesser, M., *et al.* Polysulfide-1-oxides react with peroxyl radicals as quickly as hindered phenolic antioxidants and do so by a surprising concerted homolytic substitution. *Chem. Sci.* **7(10),** 6347-6356 (2016).

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