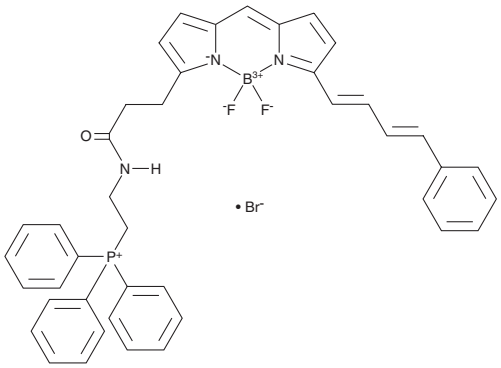
PRODUCT INFORMATION

MitoPerOx

Item No. 18798

CAS Registry No.:	1392820-50-6
Formal Name:	(2-(3-(5,5-difluoro-7-((1E,3E)-4-phenylbuta-1,3-dien-1-yl)-5H-5λ^4,6λ^4-dipyrrolo[1,2-c:2',1'-f][1,3,2]diazaborinin-3-yl)propanamido)ethyl)triphenylphosphonium, monobromide
MF:	$C_{42}H_{38}BF_2N_3OP \bullet Br$
FW:	760.5
Purity:	≥90%
Ex./Em. Max:	495/520-590 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

MitoPerOx is supplied as a solid. A stock solution may be made by dissolving the MitoPerOx in the solvent of choice, which should be purged with an inert gas. MitoPerOx is soluble in the organic solvent DMSO at a concentration of approximately 25 mM.

Description

MitoPerOx is a ratiometric fluorescent probe that can be used to assess changes in lipid peroxidation within mitochondria.[1] It is composed of a BODIPY fluorophore conjugated *via* a dienyl link to a triphenylphosphonium cation component that drives its accumulation in mitochondria. MitoPerOx displays an excitation maximum of 495 nm and exhibits a shift in emission maxima from 590 to 520 nm upon mitochondrial lipid peroxidation, enabling determination of ratiometric measurements of lipid peroxidation in live cells.

Reference

1. Prime, T.A., Forkink, M., Logan, A., *et al.* A ratiometric fluorescent probe for assessing mitochondrial phospholipid peroxidation within living cells. *Free Radic. Biol. Med.* **53(3)**, 544-553 (2012).

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