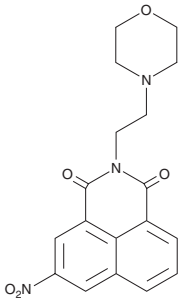
PRODUCT INFORMATION

LysoFP-NO_2

Item No. 27024

CAS Registry No.:	69408-75-9
Formal Name:	2-[2-(4-morpholinyl)ethyl]-5-nitro-1H-benz[de]isoquinoline-1,3(2H)-dione
MF:	$C_{18}H_{17}N_3O_5$
FW:	355.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 219, 275, 332 nm
EX./Em. Max:	440/528 nm
Supplied as:	A crystalline 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

LysoFP-NO_2 is supplied as a crystalline solid. A stock solution may be made by dissolving the lysoFP-NO_2 in the solvent of choice. LysoFP-NO_2 is soluble in the organic solvent chloroform, which should be purged with an inert gas, at a concentration of approximately 30 mg/ml.

Description

LysoFP-NO_2 is a turn-on fluorescent probe for carbon monoxide (CO) that localizes to the lysosome.[1] In the presence of lysosomal CO, LysoFP-NO_2 is transformed into LysoFP-NH_2, which is highly fluorescent. LysoFP-NO_2 is selective for CO over various reactive nitrogen, oxygen, and sulfur species. It displays excitation/emission maxima of 440/528 nm, respectively, and is not cytotoxic to HepG2 cells for up to five hours when used at a concentration of 30 µM.

Reference

1. Dhara, K., Lohar, S., Patra, A., *et al.* A new lysosome-targetable turn-on fluorogenic probe for carbon monoxide imaging in living cells. *Anal. Chem.* **90(4)**, 2933-2938 (2018).

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