Print Date: Jan 8th 2026

Certificate of Analysis

Product Name: **Liperfluo** **Catalog No.: 8868** **Batch No.: 1**

CAS Number: 1448846-35-2

IUPAC Name: 2-[4-(Diphenylphosphino)phenyl]-9-(3,6,9,12-tetraoxatridec-1-yl)anthra[2,1,9-*def* :6,5,10-*d'e'f'*]diisoquinoline-1,3,8,10 (2*H* ,9*H*)-tetrone

1. PHYSICAL AND CHEMICAL PROPERTIES

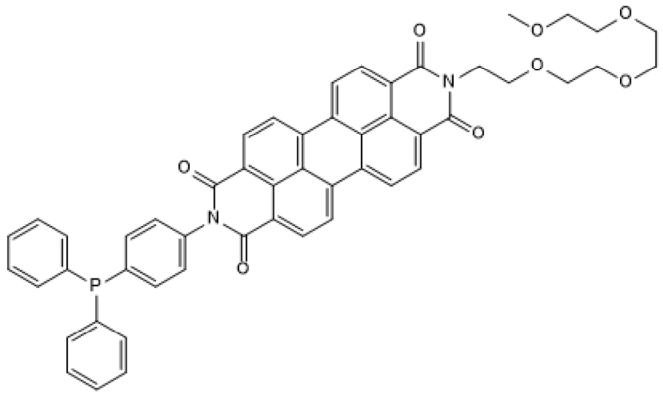
Batch Molecular Formula: $C_{51}H_{41}N_2O_8P$

Batch Molecular Weight: 840.87

Physical Appearance: Dark red solid

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.3% purity

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Description:

Key information: Liperfluo is a fluorescent probe for the selective detection and imaging of lipid peroxides in living cells. Upon reaction with lipid peroxides, Liperfluo is oxidized and becomes fluorescent. Used for: imaging lipid peroxides in living cells. Liperfluo can be used to monitor lipid peroxidation in ferroptosis research. Application: fluorescent microscopy and flow cytometry. Properties and Photophysical Data: Liperfluo has a high solubility in organic solvents. It displays minimal photo damage and auto-fluorescence and shows high selectivity to lipid peroxidases over ROS and other radical species. Excitation and emission max... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

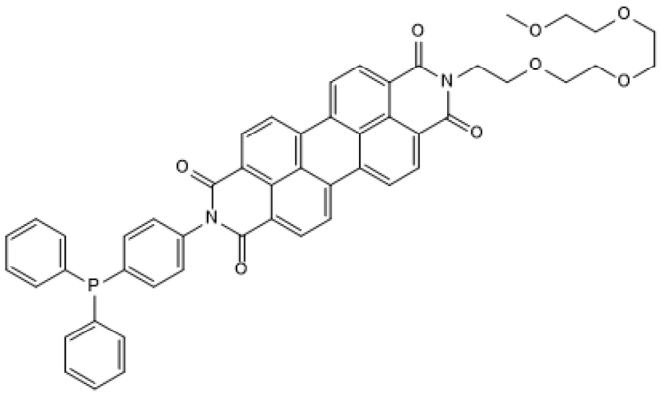
Batch Molecular Formula: $C_{51}H_{41}N_2O_8P$

Batch Molecular Weight: 840.87

Physical Appearance: Dark red solid

Minimum Purity: ≥90%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Yamanaka *et al* (2012) A novel fluorescent probe with high sensitivity and selective detection of lipid hydroperoxides in cells. RSC Adv. ***2*** 7894.

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