

D149 Dye Catalog No: tcsc0354

Available Sizes

Size: 50mg

Size: 100mg

Size: 500mg

Specifications

CAS No:

786643-20-7

Formula:

 $C_{42}H_{35}N_{3}O_{4}S_{3}$

Pathway:

Others

Target:

Others

Purity / Grade:

Solubility: DMSO : \geq 21 mg/mL (28.30 mM)

Alternative Names:

D149;Indoline dye D149

Observed Molecular Weight:

741.94

Product Description

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D149 Dye is an indoline-based **dye**, which is a high-extinction-coefficient metal-free organic sensitizer.

In Vitro: D149 is a metal-free organic dye, which is promising all-organic alternatives. D149 displays power conversion efficiency of up to 9%. Furthermore, D149 has a peak extinction co-efficient of 68700 M⁻¹ cm⁻¹ at 540 nm, significantly higher than 13900 M⁻¹cm⁻¹ at 535 nm for N719^[1]. D149, a metal-free indoline dye, is one of the most promising sensitizers for dye-sensitized solar cells (DSSCs) and has shown very high solar energy conversion efficiencies of 9%. D149 shows a large number of unresolved aromatic and olefinic signals between 7 and 7.5 ppm^[2]



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