

D149 Dye

Catalog No: tcsc0354



Available Sizes

Size: 50mg

Size: 100mg

Size: 500mg



Specifications

CAS No:

786643-20-7

Formula:

$C_{42}H_{35}N_3O_4S_3$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 21 mg/mL (28.30 mM)

Alternative Names:

D149;Indoline dye D149

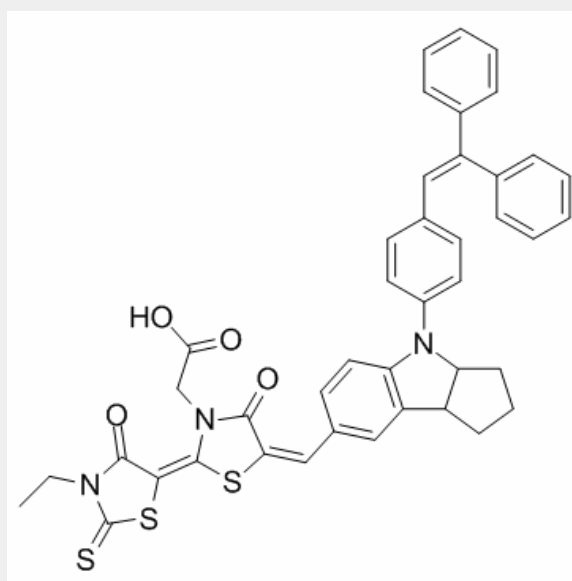
Observed Molecular Weight:

741.94

Product Description

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 $68700 \text{ M}^{-1} \text{ cm}^{-1}$ at 540 nm, significantly higher than $13900 \text{ M}^{-1} \text{ cm}^{-1}$ 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]



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!