

Product Name: Thalidomide-Cyanine 5

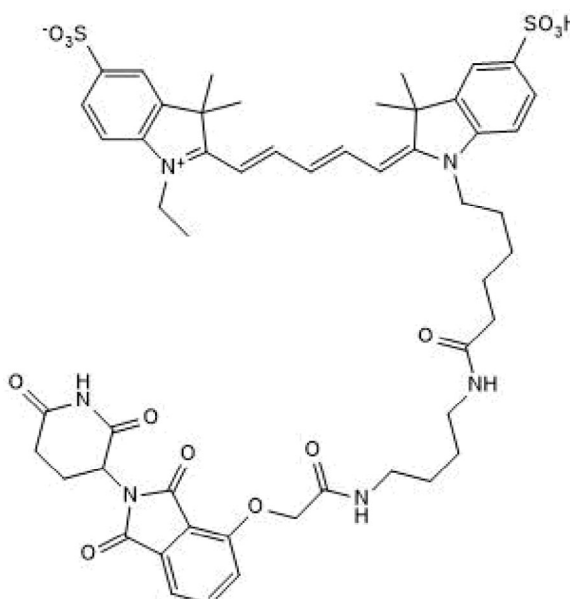
Catalog No.: 7288

Batch No.: 1

IUPAC Name: 2-((1*E*,3*E*)-5-((*E*)-1-(6-((4-(2-((2,6-Dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)oxy)acetamido)butyl)amino)-6-oxohexyl)-3,3-dimethyl-5-sulfoindolin-2-ylidene)penta-1,3-dien-1-yl)-1-ethyl-3,3-dimethyl-3*H*-indol-1-ium-5-sulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---|
| Batch Molecular Formula: | C ₅₂ H ₆₀ N ₆ O ₁₃ S ₂ |
| Batch Molecular Weight: | 1041.2 |
| Physical Appearance: | Blue solid |
| Solubility: | DMSO to 20 mM |
| Storage: | Store at -20°C |
| Batch Molecular Structure: | |



2. ANALYTICAL DATA

| | |
|---------------------------|----------------------------|
| HPLC: | Shows >90% purity |
| ¹H NMR: | Consistent with structure |
| Mass Spectrum: | Consistent with structure |
| UV Spectrum: | Consistent with structure |
| λ_{max}: | 650 nm (PBS buffer pH 7.4) |
| λ_{ex}: | 652 nm (PBS buffer pH 7.4) |
| λ_{em}: | 665 nm (PBS buffer pH 7.4) |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Thalidomide-Cyanine 5 is a fluorescent probe for cereblon E3 ligases. Binds with high affinity to DDB1-CRBN. Suitable for use in TR-FRET.

Physical and Chemical Properties:

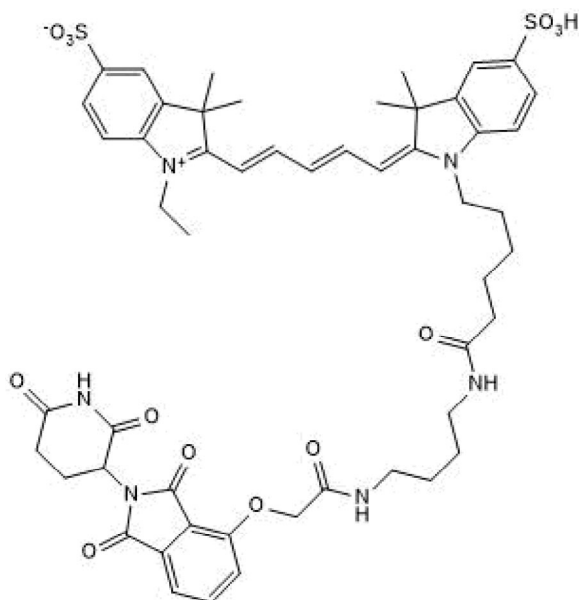
Batch Molecular Formula: C₅₂H₆₀N₆O₁₃S₂

Batch Molecular Weight: 1041.2

Physical Appearance: Blue solid

Minimum Purity: ≥90%

Batch Molecular Structure:



Storage: Store at -20°C

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

Solubility & Usage Info:

DMSO to 20 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Chessum et al (2018) Demonstrating in-cell target engagement using a pirin protein degradation probe (CCT367766). *J.Med.Chem.* **61** 918. PMID: 29240418.

Cavadini et al (2016) Cullin-RING ubiquitin E3 ligase regulation by the COP9 signalosome. *Nature* **531** 598. PMID: 27029275.

Petzold et al (2016) Structural basis of lenalidomide-induced CK1α degradation by the CRL4^{CRBN} ubiquitin ligase. *Nature* **532** 127. PMID: 26909574.

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