

Product Description: A near infrared (NIR) Cy7-type dye is attached to amino groups of duramycin. The conjugate contains 1 Cy7 dye molecule per duramycin molecule. Duramycin binds phosphatidylethanolamine (PE) at a 1:1 ratio with high affinity and exclusive specificity.

Properties of Duramycin-NIR790 Conjugate: The structure and physical properties of the conjugate are shown in Fig 1 and Table 1 below.

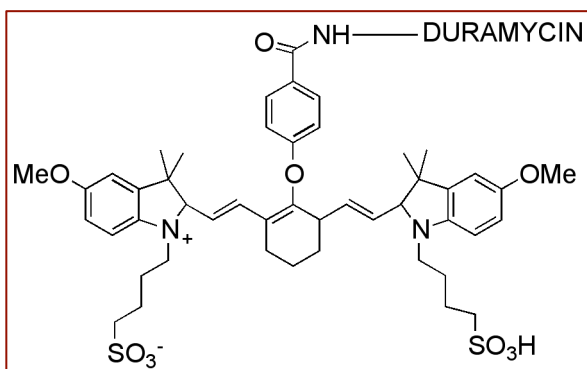


Fig 1: Chemical structure

Property	Specification
MW	2,884
FL: Ex max, Em max	790nm; 805nm
Extinction coefficient (ε)	145,000M ⁻¹ cm ⁻¹
Appearance	Green solid

Table 1: Properties

Catalog #	Product Name	Size/Dose	Price (USD)
D-1004	Duramycin-NIR790	50nmoles/144ugrams	\$250.00

Product Formulation Procedure: Add 200uL of a solution of 5% DMSO in water to the vial and pipet up and down to dissolve the solid and obtain a 250uM stock solution in water containing 5% DMSO. Dilute further with water as necessary.

Reference: For a similar duramycin-NIR fluorescent conjugate, see Stafford JH and Thorpe PE (2011). Increased exposure of phosphatidylethanolamine on the surface of tumor vascular endothelium. *Neoplasia*, 13, 4, 299-308.

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