

# Duramycin-LC-Biotin Conjugate

Cat # D-1003

**Product Description:** Biotin is attached to amino groups of duramycin via a 6-carbon aminohexanoyl spacer. The conjugate contains 1 biotin molecule per duramycin molecule. Duramycin binds phosphatidylethanolamine (PE) at a 1:1 ratio with high affinity ( $K_d$  of 4-6 nM) and exclusive specificity.

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

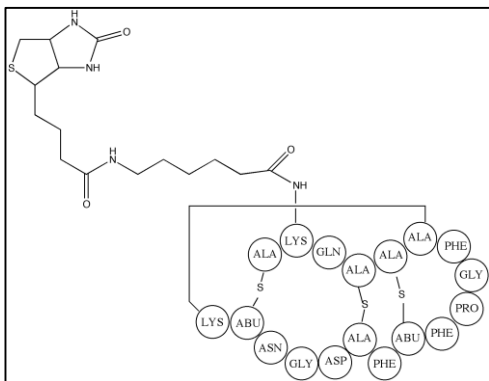


Fig 1: Chemical structure

Property	Specification
MW	2,352
Appearance	Colorless solid

Table 1: Properties

Catalog #	Product Name	Size/Dose	Price (USD)
D-1003	Duramycin-LC-Biotin	100 ugrams/42.5 nmoles	\$200.00

**Product Formulation Procedure:** Add 212uL of a solution of 5% DMSO in water to the vial and pipet up and down to dissolve the solid and obtain a 200uM stock solution in water containing 5% DMSO.

Reference:

- Stafford JH, Thorpe PE (2011). *Increased Exposure of Phosphatidylethanolamine on the Surface of Tumor Vascular Endothelium*. Neoplasia, 13, 4, 299-308

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