

Product Information

DiO-labeled liposomes

Cat. No.: X26-05-ZQ2559

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

Synonym: DiO-labeled LPs; DiO-tagged liposomes; DiO fluorescently modified liposomes

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	This high-purity synthetic tracking reference formulation features 3,3'-dioctadecyloxacarbocyanine labeled liposomes. The vesicular matrix self-assembles from a high-purity phospholipid-cholesterol blend without containing active drug cargo, incorporating a precise molecular fraction of the lipophilic green-emitting probe 3,3'-dioctadecyloxacarbocyanine perchlorate (DiO) intercalated directly within the hydrocarbon tail core. This controlled composition provides a highly consistent lipid phase bilayer framework paired with sharp green membrane fluorescence emission parameters, completely preventing probe leakage or physical vesicle aggregation while serving as an established baseline standard for tracking membrane fusion kinetics.
Source	Custom synthesis
Functional Group	DiO fluorescent tracer
Form	Solid or powder
Purity	≥95%
Impurities	No visible impurities to the naked eye.
Identity	HPLC/MS/NMR
Stability	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Storage	Store at -20°C.