



## Product Information

### DOPE phospholipid long-circulating liposome-encapsulated peptides

**Cat. No.:** X26-05-ZQ2539

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

**Synonym:** DOPE long-circulating peptide LPs; DOPE stealth liposome-encapsulated peptides; DOPE long-circulating liposomal peptides

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

#### Product Information

<b>Description</b>	This advanced engineered steric material features 1,2-dioleoyl-sn-glycero-3-phosphoethanolamine functionalized peptide-loaded liposomes. The structural framework encapsulates a model peptide cargo within its central aqueous reservoir, using a lipid bilayer shell composed of the highly fluid unsaturated lipid 1,2-dioleoyl-sn-glycero-3-phosphoethanolamine (DOPE) surface-modified with long-chain polyethylene glycol polymer spacers. This precise surface modification balances a highly fluid unsaturated bilayer phase with a dense protective hydrophilic steric brush layer, completely preventing physical vesicle aggregation while protecting the encapsulated peptide cargo from rapid chemical denaturation in open laboratory media.
<b>Source</b>	Custom synthesis
<b>Functional Group</b>	DOPE; Bioactive peptide
<b>Form</b>	Solid or powder
<b>Purity</b>	≥95%
<b>Impurities</b>	No visible impurities to the naked eye.
<b>Identity</b>	HPLC/MS/NMR
<b>Stability</b>	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
<b>Quality Level</b>	Research grade
<b>Storage</b>	Store at -20°C.