



## Product Information

### Enzyme-responsive simvastatin liposomes

**Cat. No.:** X26-05-ZQ2571

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

**Synonym:** Enzyme-responsive simvastatin LPs; Enzyme-responsive simvastatin liposomes; Enzyme-triggered simvastatin liposomes

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

#### Product Information

<b>Description</b>	This advanced responsive formulation features enzyme-sensitive simvastatin loaded liposomes. The structural matrix incorporates the hydrophobic statin compound simvastatin within its lipophilic hydrocarbon tail core, utilizing a phospholipid bilayer shell engineered with specific enzyme-cleavable peptide or lipid links. Under standard laboratory buffer indices, the vesicle matrix remains highly stable; however, exposure to specific target enzymes triggers immediate bond cleavage, causing rapid lateral phase separation, membrane packing defects, and instantaneous cargo release.
<b>Source</b>	Custom synthesis
<b>Functional Group</b>	Enzyme-cleavable matrix; Simvastatin
<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.