

Product Information

Paclitaxel magnetic long-circulating liposomes

Cat. No.: X26-05-ZQ1828

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

Synonym: Paclitaxel magnetic long-circulating LPs; PTX magnetic stealth liposomes; Magnetic PEGylated paclitaxel LPs

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

Product Information

Description	This highly engineered multi-component formulation features paclitaxel magnetic long-circulating liposomes designed as a responsive, sterically stabilized tracking model. The complex structural framework consists of a stable phospholipid bilayer shell modified with polyethylene glycol polymer-lipid conjugates that accommodates the highly hydrophobic taxane diterpenoid paclitaxel within its interior lipophilic tail domain, while the central aqueous core encapsulates superparamagnetic iron oxide nanoparticles. This configuration coordinates the magnetic nanoparticles near the polar headgroups of the lipid bilayer, introducing a strong response to external magnetic fields while the pegylated outer boundary provides a dense hydrophilic steric shield that completely prevents physical vesicle aggregation.
Source	Custom synthesis
Functional Group	Paclitaxel
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.