

SV-25

Microbubbles for Sonoporation Ultrasound Contrast Agents

◆ Mechanism

The microbubbles are mixed with the gene or the medicine solution in the beginning, and the mixed solution is mixed with the cell solution, or injected into the tissue or the tumor. If ultrasound energy is irradiated to the microbubbles, it will burst them and generate the microjet stream. This process will increase the penetration rate of the cell membrane, and the gene or the medicine can be efficiently introduced into the cell and the tissue.

◆ Purpose of Use

Ultrasound microbubbles used for introducing the gene or the medicine into the suspension or the adherent cell, the tissue or the tumor cell with sonoporation gene transfection system such as Sonitron2000 or SonoPore4000. The microbubbles can be used only for research purpose, and cannot be used for clinical purpose.

Cat. No.	Product Name	Volume
SV-25	Microbubbles for Sonoporation	25mg



◆ Features

● Product Description

One ml contains 8 μ l of sulphur hexafluoride microbubbles.
Macroglol 4000,
Distearoylphosphatidylcholine,
Dipalmitoylphosphatidylglycerol sodium, Palmitic acid. Solvent:
Sodium chloride 9mg/ml (0.9%)
solution for injection.

● DNA and Microbubbles

Concentration

Microbubbles solution is mixed into DNA solution (microbubbles solution concentration: 30-50%).

● High gene transfection efficiency

Sulphur hexafluoride accelerates bubble collapse by treating ultrasound, therefore it is used as gene transfection aid.

● Special precautions for storage

No special precautions for storage.

● Instructions for Use

After reconstitution, SV-25 is a homogeneous white milky dispersion. If it is not used immediately after reconstitution the dispersion will be shaken again before being drawn up into a syringe.

