

PSVue™ 480 Reagent Kit

PSVue™ 480 REAGENT KIT CONTENTS

Vial containing pre-weighed amount of apo-PSS480 solid dye (at least 0.5 mg)

Vial of 4.2mM zinc nitrate solution in water (0.5 mL)

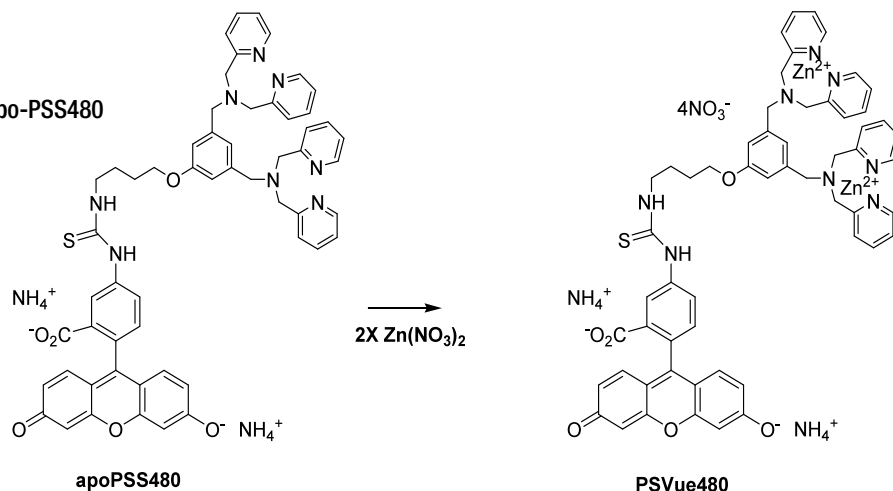
Note: DMSO is required to formulate the product but is not provided.

DESCRIPTION

The **PSVue™ 480** (formerly PSS-480) reagent kit contains components to provide a 1 mM solution of **PSVue™ 480** in aqueous solution. The structure and spectral properties of **PSVue™ 480** are shown in Figures 1 and 2 respectively. **PSVue™ 480** has been found to bind strongly to the phosphatidylserine (PS) residues exposed on the cell surface of apoptotic cells, through its zinc(II)-dipicolylamine (Zn-DPA) functionality, making it a useful apoptosis sensor [1, 2]. Staining selectivity is very similar to that obtained with annexin V-FITC since the Zn-DPA PS affinity group has been shown to bind to the same membrane sites as annexin V [1], thus making it a more cost effective alternative to FITC labeled Annexin V in various cell death assays. Negatively charged bacterial cell walls are also expected to be labeled selectively with **PSVue™ 480** [3, 4] (e.g. *S. aureus*, *E. coli*). In addition, tumor cells such as glioma cells which express increased levels of PS on their surface can be labeled with this probe [5]. In addition to its utility in cell biology research, **PSVue™ 480** may be useful in the automation of biotechnology processes and high-throughput screening systems for drug candidates.

FIGURE 1

Structure of PSVue™ 480 and Precursor apo-PSS480



ORDERING INFORMATION

Cat. #	Description	Sizes
25103	PSVue™ 480 Reagent Kit	1 kit

Order online anytime at www.polysciences.com

TO ORDER

In The U.S. Call:	1(800) 523-2575 • (215) 343-6484
In The U.S. Fax:	1(800) 343-3291 • (215) 343-0214
In Germany Call:	+(49) 6221-765767
In Germany Fax:	+(49) 6221-764620