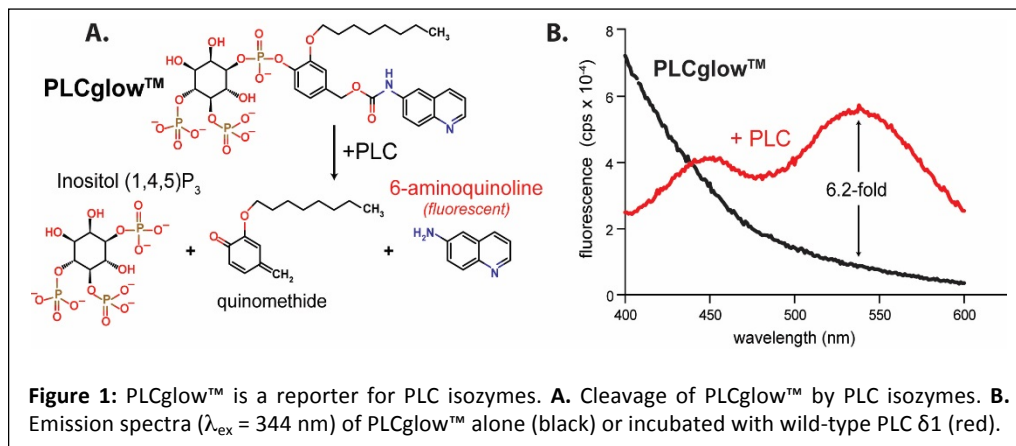


PLCglow™

Catalog # C0100S

Description: PLCglow™ is a small molecule that directly reports the enzymatic activity of phospholipase C (PLC) isozymes^{1,2}. PLCglow™ is hydrolyzed by PLCs to generate inositol trisphosphate (IP₃), quinomethide, and 6-aminoquinoline. Relative to PLCglow™, the aminoquinoline is highly fluorescent ($\lambda_{\text{ex/em}} = 344/530 \text{ nm}$) (**Fig. 1**).

- Huang *et al.*, A fluorogenic, small molecule reporter for mammalian phospholipase C isozymes. *ACS Chemical Biology* **6(3)**, 223-8 (2011).



- Huang *et al.*, Small molecule inhibitors of phospholipase C from a novel high-throughput screen. *JBC* **288(8)**, 5840-8 (2013).

Properties:

Molecular weight: 1,127 g/mol as triethylamine salt (824 g/mol for compound alone).

Amount: 50 μg .

Form: Powder.

Storage and stability:

Storage Temperature: -80°C.

Stability: Stable for up to 12 months at -80°C and up to 14 days at 4°C in water. PLCglow™ is not stable for long periods in several common buffers and stock solutions should be stored only in water. Repeated freezing and thawing is not recommended.

Notes: Results will vary depending on the sensitivity of the fluorometer and the specific activity of the PLC isozyme. In order to obtain optimal results, we recommend testing a dilution series of PLCglow™ and PLC isozyme. PLCglow™ is designed to work with purified proteins and cellular lysates. In contrast, PLCglow™ will not enter intact cells and is therefore inappropriate for measuring intracellular PLCs.

Precautions and disclaimer:

This product is for *in vitro* research only and not for drug, household, or other use in humans and animals.