DBPC (PLA2 Substrate)

Catalog number: L-3000

Molecular Formula: C_{57}H_{84}BF_{2}N_{8}O_{10}P

MW: 1121.11

CAS: 885331-21-5

Alternate Name: 1-0-(6-Dabcyl-aminohexanoyl)-2-O-(12-(5-BODIPY®-pentanoyl)aminododecanoyl)-sn-glyceryl phosphatidylcholine

Solubility: 5 mg/mL Chloroform, 1 mg/mL EtOH

Storage and Handling: Store dry at -20 °C. Stock solutions should be stored frozen (-20 °C or below). Protect from light.

Background: Phospholipase A2 (PLA2) is the enzyme which cleaves phospholipids to produce lysophospholipids and free fatty acids. The PLA2 family of enzymes is known to be at least 10 distinct members. sPLA2-V and sPLA2-X are selectively expressed in human airway epithelium and sPLA2-X in various immune cells. The basal expression of a third enzyme, sPLA2-IIA is low but becomes highly expressed during inflammation and sepsis. This enzyme has become associated with allergic rhinitis, rheumatoid arthritis, septic shock and ARDS. PLA2-IIA represents a target for the treatment of inflammatory disease. The PLA2 substrate DBPC, is a sensitive probe for a continuous fluorogenic detection applicable to both in vitro and cell-based in situ screening assays.

References:

Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the MSDS on request. This product is manufactured and shipped only in small quantities, intended for research and development in a laboratory utilizing prudent procedures for handling chemicals of unknown toxicity, under the supervision of persons technically qualified to evaluate potential risks and authorized to enforce appropriate health and safety measures. As with all research chemicals, precautions should be taken to avoid unnecessary exposures or risks.

Warranty and Disclaimer: Echelon warrants the product conforms to the specifications stated herein. In the event of nonconformity, Echelon will replace products or refund purchase price, at its sole option, and Echelon shall not be responsible for any other loss or damage, whether known or foreseeable to Echelon. No other warranties apply, express or implied, including but not limited to warranty of fitness for any purpose or implied warranty of merchantability. Purchaser is solely responsible for all consequences of its use of the product and Echelon assumes no responsibility therefore, including success of purchaser's research and development, or health or safety of any uses of the product.

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