

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

Product Information



sPLA₂ (Type III)

Item No. 60500 • Batch No. XXXXX

CAS Registry No.:	9001-84-7
Synonym:	Secretory PLA ₂ (bee venom)
Source:	Bee venom (Apis mellifera)
EC:	3.1.1.4
M _r :	14 kDa • Monomer
Purity:	~20 to 50% based on SDS-PAGE analysis; likely to contain melittin of unknown percentage
Stability:	≥2 years at -20°C
Supplied as:	A lyophilized powder
Specific activity:	<i>batch specific</i> U/mg
Unit definition:	One unit of enzyme hydrolyzes one µmol of Diheptanoyl Thio-PC per minute at 25°C.

Laboratory Procedures

For long term storage, we suggest that sPLA₂ (type III) be stored as supplied at -20°C. It should be stable for at least two years.

sPLA₂ (type III) is supplied as a lyophilized powder. However, if a pH-dependent assay for enzyme activity is to be used, reconstitute the enzyme in water. The enzyme is not stable at a concentration less than 100 µg/ml. If a less concentrated sample is needed, dilute prior to performing your experiment and use within an hour. In the event that only a portion of the enzyme is to be used in a single experiment, it is recommended that the enzyme be aliquoted into smaller sizes and frozen at -20°C. The enzyme should be stable for at least six months. sPLA2 (type III) is relatively unstable at room temperature. Hence, to prevent loss of activity when performing experiments, keep the stock vial of the enzyme on ice (0-4°C) at all times.

PLA2 catalyzes the hydrolysis of fatty acids at the sn-2 position of glycerophospholipids, yielding a free fatty acid and a lysopĥospholipid.¹⁻² The extracellular or secretory PLA₂ obtained from snake or bee venom, mammalian pancreas, or human synovial fluid are small, 14 kDa proteins which are dependent on Ca^{2+} for catalytic activity and can hydrolyze any fatty acid at the sn-2 position.¹⁻² PLA₂ in bee venom promotes cell lysis and membrane disruption.

References

DIAGNOSTIC OR THERAPEUTIC USE.

WARRANTY AND LIMITATION OF REMEDY

SAFETY DATA

- 1. Dennis, E.A. Diversity of group types, regulation, and function of phospholipase A₂. J. Biol. Chem. 269, 13057-13060 (1994).
- 2. Dennis, E.A. The growing phospholipase A₂ superfamily of signal transduction enzymes. *Trends Biochem. Sci.* 22, 1-2 (1997).

Cayman Chemical

Mailing address

1180 E. Ellsworth Road Ann Arbor, MI 48108 USA

custserv@caymanchem.com

www.caymanchem.com

Phone (800) 364-9897 (734) 971-3335

Fax (734) 971-3640

E-Mail

Web

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, indirect indirect and the second and the s

Buyer's exclusive remedy and Laymans sole hability neterinder shall be infinited to a terminal of the particular process of an experimental strain terminal of the particular process of an experimental strain terminal of the particular process of an experimental strain terminal of the particular process of an experimental strain terminal of the particular process of an experimental strain terminal of the particular process of an experimental strain terminal of the particular process of an experimental strain terminal of the particular process of an experimental strain terminal strain terminal of the particular process of an experimental strain terminal strain tereminal strain terminal strain strain