

Active Native Clostridium perfringens Phospholipase C, Type I

Cat. No. Neuraminidase-012C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Type I, protein, 20-40%
Species	Clostridium perfringens (C. welchii)
Description	We are committed to bringing you Greener Alternative Products, which adhere to one or more of The 12 Principles of Greener Chemistry. This product has been enhanced for energy efficiency and waste prevention when used in biodiesel research. For more information see the article in biofiles.
Form	Lyophilized powder
CAS Number	9001-86-9
Enzyme Commission number	3.1.4.3 (BRENDA, IUBMB)
EC Number	232-638-2
MDL number	MFCD00131895
UNSPSC Code	12352204
NACRES	NA.54
Biochem/physiol Actions	PLC hydrolyzes the phosphate bond on phosphatidylcholine and other

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glycerophospholipids yielding diacylglycerol. This enzyme also hydrolyzes the phosphate bonds of sphingomyelin, cardiolipin, choline plasmalogen and ceramide phospholipids. Phospholipase C is induced by thrombin and platelet-activating factor, forming 1,2-diacylglycerol and phosphatidic acid.

Hydrolyzes the phosphate bond on phosphatidylcholine and other glycerophospholipids yielding diacylglycerol; this enzyme will also hydrolyze the phosphate bonds of sphingomyelin, cardiolipin, choline plasmalogen and ceramide phospholipids.

Bio-activity 10-50 units/mg protein

Unit Definition One unit will liberate 1.0 μ mole of water soluble organic phosphorus from egg yolk L- α -phosphatidylcholine per min at pH 7.3 at 37 centigrade.

Applications Phospholipase C (PLC) has been used to study adrenoceptor-mediated transmembrane signaling. It is also used to degrade inositol-containing phospholipids. Furthermore, it has been used to study 9E3 gene activation

Storage At -20 centigrade

GENE INFORMATION

Official Symbol Neuraminidase

Synonyms Lecithinase C; Lipophosphodiesterase I; PC-PLC; Phosphatidylcholine cholinephosphohydrolase

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