
Product Data Sheet

Product Name: PLA1A Human
 Cat. No.: GP22093
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Phospholipase A1 Member A; PSPLA1; PS-PLA1; Phosphatidylserine-Specific Phospholipase A1alpha; EC 3.1.1.-; NMD; Phosphatidylserine-Specific Phospholipase A1; PLA1A.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSDAPPTPQ PKCADFQSAN LFEGTDLKVQ FLLFVPSNPS CGQLVEGSSD LQNSGFNATL GTKLIHGFRL VLGTKPSWID TFIRTLRRAT NANVIAVDWI YGSTGVYFSA VKNVIKLSLE ISLFLNKLIV LGVSESSIHI IGVSLGAHVG GMVGQLFGGQ LGQITGLDPA GPEYTRASVE ERLDAGDALF VEAHTDTDN LGIRIPVGHV DYFVNGGQDQ PGCPTFFYAG YSYLICDHMR AVHLYISALE NSCPLMAFPC ASYKAFLAGR CLDCFNPFLL SCPRIGLVEQ GGVKIEPLPK EVKVYLLTTS SAPYCMHHSL VEFHLKELRN KDTNIEVTFL SSNITSSSKI TIPKQORYGK GIIAHATPQC QINQVKFKFQ SSNRVWKKDR TTIIGKFCTA LLPVNDREKM VCLPEPVNLQ ASVTVSCDLK IACV.		
Formulation	The PLA1A solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Phospholipase A1 Member A (PLA1A) is a phospholipase which hydrolyzes fatty acids at the sn-1 position of phosphatidylserine and 1-acyl-2-lysophosphatidylserine. The secreted PLA1A protein hydrolyzes phosphatidylserine in liposomes. PLA1A hydrolyzes phosphatidylserine (PS) in the form of liposomes and 1-acyl-2 lysophosphatidylserine (lyso-PS), but not triolein, phosphatidylcholine (PC), phosphatidylethanolamine (PE), phosphatidic acid (PA) or phosphatidylinositol (PI). PLA1A isoform 2 hydrolyzes lyso-PS but not PS. The hydrolysis of lyso-PS in peritoneal mast cells activated by receptors for IgE leads to stimulation of histamine production.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PLA1A Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 454 amino acids (26-456) and having a molecular mass of 49.5kDa. PLA1A is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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