

PLA2G1B Protein, Mouse (HEK293, His)

Cat. No.:	HY-P71212
Synonyms:	Phospholipase A2; Group IB phospholipase A2; PLA2-Ib; Phosphatidylcholine 2-acylhydrolase 1B; Pla2g1b; Pla2
Species:	Mouse
Source:	HEK293
Accession:	Q9Z0Y2 (A16-C146)
Gene ID:	18778
Molecular Weight:	Approximately 15.0 kDa

PROPERTIES

AA Sequence	<p>A H S I S P R A V W Q F R N M I K C T I P G S D P L K D Y N N Y G C Y C G L G G</p> <p>W G T P V D D L D R C C Q T H D H C Y S Q A K K L E S C K F L I D N P Y T N T Y</p> <p>S Y S C S G S E I T C S A K N N K C E D F I C N C D R E A A I C F S K V P Y N K</p> <p>E Y K N L D T G K F C</p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM HEPES, 150 mM NaCl, pH 7.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>PLA2G1B is a secretory calcium-dependent phospholipase A2 that predominantly targets dietary phospholipids in the intestinal tract. Exhibiting phospholipase A2 activity, it hydrolyzes the ester bond of the fatty acyl group at the sn-2 position of phospholipids, with a preference for phosphatidylethanolamines and phosphatidylglycerols over phosphatidylcholines. PLA2G1B may play a crucial role in the biosynthesis of N-acyl ethanolamines, regulating energy metabolism and inflammation in the intestinal tract. It acts in an autocrine and paracrine manner and, upon binding to the PLA2R1 receptor, can regulate podocyte survival and glomerular homeostasis. Additionally, PLA2G1B exhibits anti-helminth activity, impacting the integrity and infectivity of helminth larvae by directly affecting phosphatidylethanolamine contents in their</p>
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membranes during intestinal epithelia infection, a process regulated by gut microbiota.

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

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