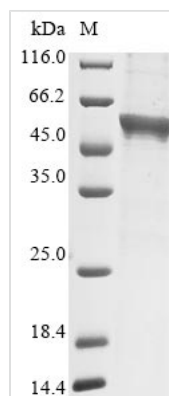




Recombinant Mouse Platelet-activating factor acetylhydrolase (Pla2g7)

Product Code	CSB-BP736762MO
Abbreviation	Recombinant Mouse Pla2g7 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q60963
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	FHWQDTSSFD FRPSVMFHKLQSVMSAAGSGHSKIPKGNGSYVVGCTDLMFG YGNESV FVRLYYPAQDQGR LDTVWIPNKEYFLGLSIFLGTPSIVGNILHLLYGSL TTPASWNSPLRTGEKYPLIVFSHGLGAFRTIYSAIGIGLASNGFIVATVEHRDRS ASATYFFEDQVAAKVENRSWLYLRKVKQEESESVRKEQVQQRAIECSRALSAI LDIEHGDPKENVLGSAFDMKQLKDAIDETKIALMGHSFGGATVLQALSEDQRF RCGVALDPWMPVNEELYSRTLQPLLFINSAKFQTPKDIAMKKFYQPDKERK MITIKGSVHQNFDDFTFVTGKIIGNKLT LKGEIDSRVAIDL TNKASMAFLQKHLGL QKDFDQWDPLVEGDDENLIPGSPFDAVTQVPAQQHSPGSQTQN
Research Area	Cardiovascular
Source	Baculovirus
Target Names	Pla2g7
Expression Region	22-440aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	50.7 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression region of this recombinant Mouse Pla2g7 covers amino acids 22-440. The calculated molecular weight for this Pla2g7 protein is 50.7 kDa. This protein is generated in a baculovirus-based system. The Pla2g7 gene fragment has been modified by fusing the N-terminal 10xHis tag and C-terminal Myc tag, providing convenience in detecting and purifying the recombinant Pla2g7 protein during the following stages.

The mouse platelet-activating factor acetylhydrolase (Pla2g7) is an enzyme involved in the metabolism of platelet-activating factor (PAF, a potent pro-inflammatory mediator implicated in various physiological processes, including inflammation, immune response, and cardiovascular function. By hydrolyzing PAF, Pla2g7 counteracts its pro-inflammatory effects. This activity contributes to the resolution of inflammation and the prevention of excessive immune responses. Pla2g7 is associated with cardiovascular health. Elevated levels of Pla2g7 have been linked to atherosclerosis and cardiovascular diseases. It serves as a potential biomarker for assessing cardiovascular risk. Pla2g7 is associated with lipoproteins, particularly high-density lipoprotein (HDL). It participates in the hydrolysis of oxidized phospholipids in lipoproteins, influencing their function and metabolism. Understanding the role of mouse platelet-activating factor acetylhydrolase is important for unraveling the complexities of inflammatory processes and lipid metabolism, particularly in the context of cardiovascular health.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.