

Recombinant Mouse PLA2G7 Protein (Met1-Asn440), His-tagged

Cat. No. PLA2G7-866M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse PLA2G7 Protein (NP_038765.2) (Met1-Asn440) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.

Species Mouse

Source HEK293

ProteinLength Met1-Asn440

Description Platelet-activating factor acetylhydrolase, also known as 1-alkyl-2-acetyl-glycerophosphocholine esterase, 2-acetyl-1-alkylglycero-phosphocholine esterase, Group-VIIA phospholipase A2, LDL-associated phospholipase A2, PAF 2-acylhydrolase, PLA2G7 and PAFAH, is secreted protein which belongs to the AB hydrolase superfamily and Lipase family. PLA2G7 / PAFAH modulates the action of platelet-activating factor (PAF) by hydrolyzing the sn-2 ester bond to yield the biologically inactive lyso-PAF. It has a specificity for substrates with a short residue at the sn-2 position. It is inactive against long-chain phospholipids. PLA2G7 / PAFAH is a potent pro- and anti-inflammatory molecule that has been implicated in multiple inflammatory disease processes, including cardiovascular disease. PLA2G7 also represents an important, potentially functional candidate in the pathophysiology of coronary artery disease (CAD). Defects in PLA2G7 are the cause of platelet-activating factor acetylhydrolase deficiency (PLA2G7 deficiency). It is a trait which is present in 27% of Japanese. It could have a significant phy

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siologic effect in the presence of inflammatory bodily responses.

Predicted N Terminal

Phe 22

Form

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Mass

The recombinant mouse Pla2g7 consists of 430 amino acids and predicts a molecular mass of 48.3 kDa.

Endotoxin

< 1.0 EU per µg protein as determined by the LAL method.

Purity

> 90 % as determined by SDS-PAGE.

Stability

Samples are stable for up to twelve months from date of receipt at -70 centigrade.

Storage

Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

Shipping

In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.

Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name

Pla2g7 phospholipase A2, group VII (platelet-activating factor acetylhydrolase,

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	plasma) [Mus musculus]
Official Symbol	PLA2G7
Synonyms	PLA2G7; PAF 2-acylhydrolase; PAF acetylhydrolase; R75400;
Gene ID	27226
mRNA Refseq	NM_013737
Protein Refseq	NP_038765
UniProt ID	Q60963

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