For Research Use Only

Recombinant Mouse PLA2G7/PAFAH protein (rFc Tag)

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Catalog Number: Eg2686

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse PLA2G7 protein Phe22-Asn440 (Accession# Q60963) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
27226

Accession:
Q60963

Predicted Molecular Mass:
72.9 kDa

SDS-PAGE:
75-85 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

PAFAH(platelet-activating factor acetylhydrolase, plasma) is also named as PLA2G7(phospholipase A2, group VII), Lp-PLA2 (Lipoprotein-associated phospholipase A2), LDL-PLA2, LDL-PLA and belongs to the AB hydrolase superfamily and lipase family. It is an enzyme which catalyzes the hydrolysis of acetyl ester at the sn-2 position of PAF. The family of PAF-Ahs consists of two intracellular isoforms (Ib and II), and one secreted isoform (plasma). Plasma PAF-AH is a monomeric polypeptide with a molecular weight of 45 kDa and it can show broad bands with a molecular weight of 43-67 kDa that it can be extensively N-glycosylated(PMID:12547653). Defects in PLA2G7 are the cause of platelet-activating factor acetylhydrolase deficiency (PAFAD), susceptibility to asthma (ASTHMA), susceptibility to atopic hypersensitivity (ATOPY).

References

1. Karasawa K. et al. (2003). Prog Lipid Res. 42(2):93-114.

Synonyms

1-alkyl-2-acetylglycerophosphocholine esterase, 2-acetyl-1-alkylglycerophosphocholine esterase, EC:3.1.1.47, LDL-associated phospholipase A2, LDL-PLA(2)

For technical support and original validation data for this product please contact

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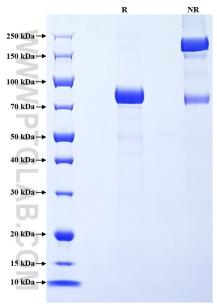
Selected Validation Data



Purity of Recombinant Mouse PLA2G7 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.