Recombinant Mouse Plaat3 Protein, Myc/DDK-tagged

Cat. No. Plaat3-4905M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length phospholipase A and acyltransferase 3 (Plaat3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Exhibits both phospholipase A1/2 and acyltransferase activities. Shows phospholipase A1 (PLA1) and A2 (PLA2), catalyzing the calcium-independent release of fatty acids from the sn-1 or sn-2 position of glycerophospholipids. For most substrates, PLA1 activity is much higher than PLA2 activity. Shows O-acyltransferase activity, catalyzing the transfer of a fatty acyl group from glycerophospholipid to the hydroxyl group of lysophospholipid. Shows N-acyltransferase activity,catalyzing the calcium-independent transfer of a fatty acyl group at the sn-1 position of phosphatidylcholine (PC) and other glycerophospholipids to the primary amine of phosphatidylethanolamine (PE), forming N-acylphosphatidylethanolamine (NAPE), which serves as precursor for N-acylethanolamines (NAEs). Exhibits high N-acyltransferase activity and low phospholipase A1/2 activity.
Molecular Mass	17.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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	handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Plaat3 phospholipase A and acyltransferase 3 [Mus musculus (house mouse)]
Official Symbol	Plaat3
Synonyms	Plaat3; phospholipase A and acyltransferase 3; Hr; Pla2; AdPLA; HRSL3; MLP-3; C78643; Hrasls3; Hrev107; Pla2g16; phospholipase A and acyltransferase 3; H-rev 107 protein homolog; HRAS-like suppressor 3; LRAT-like protein 3; adipose-specific phospholipase A2; group XVI phospholipase A1/A2; group XVI phospholipase A2; phospholipase A2, group XVI; EC 3.1.1.32; EC 3.1.1.4
Gene ID	225845
mRNA Refseq	NM_139269
Protein Refseq	NP_644675
UniProt ID	Q8R3U1

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