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Product datasheet for TP501283

Pla2g16 (NM_139269) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse phospholipase A and acyltransferase 3 (Plaat3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR201283 protein sequence Red=Cloning site Green=Tags(s) MLAPIPEPKPGDLIEIFRPMYRHWAIYVGDGYVIHLAPPSEVAGAGAASIMSALTDKAIVKKELLCHVAG KDKYQVNNKHDEEYTPLPLSKIIQRAERLVGQEVLYRLTSENCEHFVNELRYGVPRSDQVRDAVKAVGIA GVGLAALGLVGVMLSRNKKQKQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	17.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_644675
Locus ID:	225845

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UniProt ID:	Q8R3U1
RefSeq Size:	3523
Cytogenetics:	19 A
RefSeq ORF:	486
Synonyms:	C78643; Hrasls3; Hrev107; HRSL3; MLP-3
Summary:	Exhibits both phospholipase A1/2 and acyltransferase activities (PubMed:19047760). 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 (PubMed:18614531, PubMed:19047760, PubMed:19136964, PubMed:22134920). For most substrates, PLA1 activity is much higher than PLA2 activity (By similarity). Shows O-acyltransferase activity, catalyzing the transfer of a fatty acyl group from glycerophospholipid to the hydroxyl group of lysophospholipid (By similarity). 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) (PubMed:19047760). Exhibits high N-acyltransferase activity and low phospholipase A1/2 activity (By similarity).[UniProtKB/Swiss-Prot Function]