Recombinant Human PLAAT3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLAAT3-4801H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLA2G16 MS Standard C13 and N15-labeled recombinant protein (NP_009000) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Lipid-modifying enzyme that acts as major regulator of adipocyte lipolysis by catalyzing the release of fatty acids from phospholipids in adipose tissue. Shows phospholipase A1 and A2 activity, catalyzing the calcium-independent hydrolysis of acyl groups in various phosphatidylcholines (PC) and phosphatidylethanolamine (PE). For most substrates, phospholipase A1 activity is much higher than phospholipase A2 activity. Phospholipase activity causes decreased intracellular levels of ether-type lipids, affecting peroxisome metabolism. May also have acyltransferase activity: catalyzes both N-acylation of phosphatidylethanolamine to form N-acyl-phosphatidylethanolamine and O-acylation of lyso-phosphatidylcholines to form phosphatidylcholines. The relevance of acyltransferase activity in vivo is however unclear and would require additional evidences. Also has weak lysophospholipase activity.
Molecular Mass	17.9 kDa
AA Sequence	MRAPIPEPKPGDLIEIFRPFYRHWAIYVGDGYVVHLAPPSEVAGAGAASVMSALTDK AIVKKELLYDVAGSDKYQVNNKHDDKYSPLPCSKIIQRAEELVGQEVLYKLTSENCEH

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	FVNELRYGVARSDQVRDVIIAASVAGMGLAAMSLIGVMFSRNKRQKQTRTRPLEQK LISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PLAAT3 phospholipase A and acyltransferase 3 [Homo sapiens (human)]
Official Symbol	PLAAT3
Synonyms	PLA2G16; phospholipase A2, group XVI; HRAS like suppressor 3, HRASLS3; group XVI phospholipase A2; adipose specific PLA2; AdPLA; H REV107 1; HREV107; HREV107 3; MGC118754.; adipose-specific PLA2; HRAS-like suppressor 1; HRAS-like suppressor 3; H-rev 107 protein homolog; Ca-independent phospholipase A1/2; adipose-specific phospholipase A2; renal carcinoma antigen NY-REN-65; HRSL3; HRASLS3; HREV107-1; HREV107-3; H-REV107-1; MGC118754;
Gene ID	11145
mRNA Refseq	NM_007069

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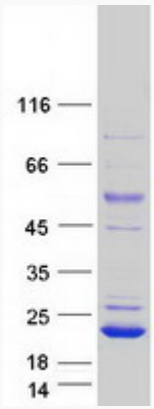
Protein Refseq	NP_009000
MIM	613867
UniProt ID	P53816
SDS-PAGE	

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