APT-1/LYPLA1 Protein, Human (His)

Cat. No.:	HY-P7539
Synonyms:	rHuAPT-1, His; LYPLA1; APT-1
Species:	Human
Source:	E. coli
Accession:	O75608 (M1-D230)
Gene ID:	10434
Molecular Weight:	Approximately 25.0 kDa

PROPERTIES

AA Sequence	M C G N N M S T P L P A I V P A A R K A T A A V I F L H G L G D T G H G W A E A F A G I R S S H I K Y I C P H A P V R P V T L N M N V A M P S W F D I I G L S P D S Q E D E S G I K Q A A E N I K A L I D Q E V K N G I P S N R I I L G G F S Q G G A L S L Y T A L T T Q Q K L A G V T A L S C W L P L R A S F P Q G P I G G A N R D I S I L Q C H G D C D P L V P L M F G S L T V E K L K T L V N P A N V T F K T Y E G M M H S S C Q Q E M M D V K Q F I D K L L P P I D H H H H H H
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filter solution of 20 mM Tris-HCl, 100 mM NaCl, 1 Mm DTT, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	APT-1/LYPLA1 protein functions as an acyl-protein thioesterase, catalyzing the hydrolysis of fatty acids from S-acylated cysteine residues within proteins, including trimeric G alpha proteins and HRAS. Additionally, it exhibits depalmitoylating activity towards KCNMA1 and potentially ADRB2. Acting as a lysophospholipase, APT-1/LYPLA1 hydrolyzes lysophosphatidylcholine (lyso-PC) and other lysophospholipids such as lyso-PE, lyso-PI, and lyso-PS, with a higher affinity for thioesterase activity. This protein significantly contributes to blood coagulation by recognizing and cleaving plasma

	phospholipids, generating lysophospholipids that serve as substrates for ENPP2, ultimately producing lysophosphatidic acid (LPA).

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