SMPDL3A Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77209
Synonyms:	Acid sphingomyelinase-like phosphodiesterase 3a; ASM-like phosphodiesterase 3a; SMPDL3A; ASML3A
Species:	Mouse
Source:	HEK293
Accession:	P70158/NP_065586.3 (V23-L445)
Gene ID:	57319
Molecular Weight:	Approximately 55-75 kDa due to the glycosylation

PROPERTIES

AA Sequence	V P L A P A D R A P A V G Q F W H V T D L H L D P T Y H I T D D R T K V C A S S K G A N A S N P G P F G D V L C D S P Y Q L I L S A F D F I K N S G Q E A S F M I W T G D S P P H V P V P E L S T G T V I K V I T N M T M T V Q N L F P N L Q V F P A L G N H D Y W P Q D Q L P I V T S K V Y S A V A D L W K P W L G E E A I S T L K K G G F Y S Q K V A S N P G L R I I S L N T N L Y Y G P N I M T L N K T D P A N Q F E W L E N T L N S S L W N K E K V Y I I A H V P V G Y L P Y A T D T P A I R Q Y Y N E K L L D I F R R Y S S V I A G Q F Y G H T H R D S L M V L S D K N G N P L N S V F V A P A V T P V K G V L Q K E T N N P G V R L F Q Y K P G D Y T L L D M V Q Y Y L N L T E A N L K G E S N W T L E Y V L T Q A Y S V A D L Q P K S L Y A L V Q Q F A T K D S K Q F L K Y Y H Y Y F V S Y D S S A T C D Q H C K T L Q V C A I M N L D S M S Y D D C L K Q H L
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SMPDL3A protein demonstrates in vitro nucleotide phosphodiesterase activity, specifically with nucleoside triphosphates,

including ATP. It also exhibits activity with p-nitrophenyl-TMP, but to a lesser extent with nucleoside diphosphates and lacks activity with nucleoside monophosphates. Additionally, SMPDL3A displays in vitro enzymatic activity with CDP-choline, yielding CMP and phosphocholine, and with CDP-ethanolamine. However, it does not possess sphingomyelin phosphodiesterase activity.

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