

## SMPDL3A Protein, Human (HEK293, His)

Cat. No.:	HY-P71325
Synonyms:	Acid sphingomyelinase-like phosphodiesterase 3a; ASM-like phosphodiesterase 3a; SMPDL3A; ASML3A
Species:	Human
Source:	HEK293
Accession:	Q92484 (L23-Y453)
Gene ID:	10924
Molecular Weight:	Approximately 59.0 kDa

### PROPERTIES

AA Sequence	<p>L P V A P A G G R N    P P P A I G Q F W H    V T D L H L D P T Y    H I T D D H T K V C</p> <p>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</p> <p>S F M I W T G D S P    P H V P V P E L S T    D T V I N V I T N M    T T T I Q S L F P N</p> <p>L Q V F P A L G N H    D Y W P Q D Q L P V    V T S K V Y N A V A    N L W K P W L D E E</p> <p>A I S T L R K G G F    Y S Q K V T T N P N    L R I I S L N T N L    Y Y G P N I M T L N</p> <p>K T D P A N Q F E W    L E S T L N N S Q Q    N K E K V Y I I A H    V P V G Y L P S S Q</p> <p>N I T A M R E Y Y N    E K L I D I F Q K Y    S D V I A G Q F Y G    H T H R D S I M V L</p> <p>S D K K G S P V N S    L F V A P A V T P V    K S V L E K Q T N N    P G I R L F Q Y D P</p> <p>R D Y K L L D M L Q    Y Y L N L T E A N L    K G E S I W K L E Y    I L T Q T Y D I E D</p> <p>L Q P E S L Y G L A    K Q F T I L D S K Q    F I K Y Y N Y F F V    S Y D S S V T C D K</p> <p>T C K A F Q I C A I    M N L D N I S Y A D    C L K Q L Y I K H N    Y</p>
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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. 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 exhibits in vitro nucleotide phosphodiesterase activity, particularly with nucleoside triphosphates such as ATP, as
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well as p-nitrophenyl-TMP. While it displays lower activity with nucleoside diphosphates, no activity is observed with nucleoside monophosphates. Notably, SMPDL3A demonstrates in vitro activity with CDP-choline, producing CMP and phosphocholine, as well as with CDP-ethanolamine. However, it does not possess sphingomyelin phosphodiesterase activity. These enzymatic characteristics highlight the substrate specificity and potential physiological relevance of SMPDL3A in nucleotide phosphodiester hydrolysis.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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