PSAP/Prosaposin Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77159
Synonyms:	Proactivator polypeptide; Saposin-A; PSAP; GLBA; SAP1
Species:	Mouse
Source:	HEK293
Accession:	Q61207/NP_035309.3 (S17-N557)
Gene ID:	19156
Molecular Weight:	Approximately 61.2 kDa.

PROPERTIES

AA Sequence

S P V Q D P K T C S G G S A V L C R D V K T A V D C G A V K H C Q Q M V W S K P
T A K S L P C D I C K T V V T E A G N L L K D N A T Q E E I L H Y L E K T C E W
I H D S S L S A S C K E V V D S Y L P V I L D M I K G E M S N P G E V C S A L N
L C Q S L Q E Y L A E Q N Q K Q L E S N K I P E V D M A R V V A P F M S N I P L
L L Y P Q D H P R S Q P Q P K A N E D V C Q D C M K L V S D V Q T A V K T N S S
F I Q G F V D H V K E D C D R L G P G V S D I C K N Y V D Q Y S E V C V Q M L M
H M Q D Q Q P K E I C V L A G F C N E V K R V P M K T L V P A T E T I K N I L P
A L E M M D P Y E Q N L V Q A H N V I L C Q T C Q F V M N K F S E L I V N N A T
E E L L V K G L S N A C A L L P D P A R T K C Q E V V G T F G P S L L D I F I H
E V N P S S L C G V I G L C A A R P E L V E A L E Q P A P A I V S A L L K E P T
P P K Q P A Q P K Q S A L P A H V P P Q K N G G F C E V C K K L V L Y L E H N L
E K N S T K E E I L A A L E K G C S F L P D P Y Q K Q C D D F V A E Y E P L L L
E I L V E V M D P G F V C S K I G V C P S A Y K L L L G T E K C V W G P S Y W C
Q N M E T A A R C N A V D H C K R H V W N

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4 or 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	The PSAP/Prosaposin protein serves as a myelinotrophic and neurotrophic factor, exerting its effects through G-protein-coupled receptors, GPR37 and GPR37L1. This interaction triggers ligand-mediated internalization, subsequently initiating ERK phosphorylation signaling. Furthermore, the protein exhibits regulatory prowess in sphingolipid metabolism, as both Saposin-A and Saposin-C facilitate the hydrolysis of glucosylceramide by beta-glucosylceramidase (EC 3.2.1.45) and galactosylceramide by beta-galactosylceramidase (EC 3.2.1.46). Notably, Saposin-C's mode of action involves forming an activated complex with the enzyme and acidic lipid, rather than solubilizing the substrate, highlighting its nuanced role in cellular processes.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA