PSAP/Prosaposin Protein, Rat (HEK293, His)

Cat. No.:	HY-P77160
Synonyms:	Proactivator polypeptide; Saposin-A; PSAP; GLBA; SAP1
Species:	Rat
Source:	HEK293
Accession:	NP_037145.2 (S17-N554)
Gene ID:	25524
Molecular Weight:	Approximately 55-75 kDa.

PROPERTIES

AA Sequence	S P V Q D P K I C S G G S A V V C R D V K T A V D C R 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 E E E I L H Y L E K T C A 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 R Q L E S N K I P E V D L A R V V A P F M S N I P L L L Y P Q D R P R S Q P Q P K A N E D V C Q D C M K L V T D I Q T A V R T N S S F V Q G L 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 A V Q M M M H M Q P K E I C V M V G F C D E V K R V P M R T L V P A T E A I K N I L P A L E L T D P Y E Q D V I Q A Q N V I F C Q V C Q L V M R K L S E L I I N N A T E E L L I K G L S K A C S L L P A P A S T K C Q E V L V T F G P S L L D V L M H E V N P N F L C G V I S L C S A N P N L V G T L E Q P A A A I V S A L P K E P A P P K Q P E E P K Q S A L R A H V P P Q K N G G F C E V C K K L V I 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 E F V A E Y E P L L L E I L V E V M D P S 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 G 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 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	PSAP, or Prosaposin, is predicted to possess several functions, including ganglioside binding activity, protein homodimerization activity, and scaffold protein binding activity. It is anticipated to be involved in processes such as ganglioside GM1 transport to the membrane, positive regulation of beta-galactosidase activity, and prostate gland development. Predicted to act upstream of or within processes with a negative effect on gene expression, it is also expected to be involved in animal organ development, glycosylceramide metabolic processes, and protein transport. PSAP is predicted to be located in the aggresome, extracellular region, and late endosome, with activity in the extracellular space and lysosome. The human ortholog(s) of this gene have been implicated in conditions such as atypical Gaucher's disease due to saposin C deficiency, combined saposin deficiency, and late-onset Parkinson's disease. PSAP exhibits biased expression in tissues such as the spleen, brain, and nine other tissues, indicating its involvement in diverse physiological 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