
Product Data Sheet

Product Name: PSAP Human

Cat. No.: GP24235

Batch No.: 1

Product Data

Purity >98%

Source HEK 293.

Physical
Appearance solidShipping
Condition Shipped at Room temp.

Synonyms Prosaposin; Proactivator polypeptide; PSAP; GLBA; SAP1.

Amino Acid
Sequence

ASGPVLGLKE CTRGSAVWCQ NVKTASDCGA VKHCLQTVWN KPTVKSLPCD
 ICKDVVTAAG DMLKDNATEE EILVYLEKTC DWLPKPNMSA SCKEIVDSYL
 PVILDIKGE MSRPGEVCSA LNLCEQLQKH LAELNHQKQL ESNKIPELDM
 TEVVAPFMAN IPLLLYPQDG PRSKPQPKDN GDVCQDCIQM VTDIQTAVRT
 NSTFVQALVE HVKEECDRLG PGMADICKNY ISQYSEIAIQ MMMHMQPKEI
 CALVGFCDDEV KEMPMQTLVP AKVASKNVIP ALELVEPIKK HEVPAKSDVY
 CEVCEFLVKE VTKLIDNNT EKEILDAFDK MCSKLPKSL EECQEVVDY
 GSSILSILLE EVSPELVCSM LHLCSGTRLP ALTVHVTQPK DGGFCEVCKK
 LVGYLDRNLE KNSTKQEILA ALEKGCFLP DPYQKQCDQF VAEYEPVLE
 ILVEVMDPSF VCLKIGACPS AHKPLLGTCK CIWGPSYWCQ NTETAAQCNA
 VEHCKRHVWN KLHHHHHH.

Solubility

It is recommended to add 200 μ l deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. PSAP is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Formulation

Filtered (0.4 μ m) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.

Introduction

Prosaposin (PSAP) is a precursor of 4 lysosomal saposin proteins (saposin A, B, C and D). Saposins are heat-stable glycoproteins which facilitate the catabolism of glycosphingolipids with short oligosaccharide groups. PSAP stimulates neurite outgrowth and increases choline acetyltransferase activity. Prosaposin exists both as a secretory

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protein and as an integral membrane protein and has neurotrophic activities. The secreted prosaposin is assumed to have additional functions in human milk, cerebrospinal fluid and seminal plasma. PSAP gene mutations are linked with Gaucher disease, Tay-Sachs disease, and metachromatic leukodystrophy.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

PSAP Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (a.a 17-524) containing a total of 518 amino acids, having a molecular mass of 57.7kDa (calculated), though it migrates at approximately 65kDa on SDS PAGE, the PSAP is fused to a 2 a.a N-terminal linker, a 2 a.a C-terminal linker and a 6 a.a His tag at C-Terminus. The Human PSAP is purified by proprietary chromatographic techniques.

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