9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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PSAP Human

Prosaposin Human Recombinant
RCP1728

Product Overview

Name	PSAP Human
Description	
Prosaposin Human Recombinant	
Accession (Primary)	P07602
Synonyms	
Prosaposin, Proactivator polypeptide, PSAP, GLBA, SAP1.	
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 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.	
Source	
HEK 293.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Filtered (0.4 μm) and lyophilized from 0.5mg/ml in phosphate buffer, pH 7.4.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
AS GPVLGLKE CTRGSAVWCQ NVKTASDCGA VKHCLQTVWN KPTVKSLPCD ICKDVVTAAG DMLKDNATEE EILVYLEKTC DWLPKPNMSA SCKEIVDSYL PVILDIIKGE MSRPGEVCSA LNLCESLQKH LAELNHQKQL	

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ESNKIPELDM TEVVAPFMAN IPLLLYPQDG PRSKPQPKDN GDVCQDCIQM VTDIQTAVRT NSTFVQALVE HVKEECDRLG PGMADICKNY ISQYSEIAIQ MMMHMQPKEI CALVGFCDEV KEMPMQTLVP AKVASKNVIP ALELVEPIKK HEVPAKSDVY CEVCEFLVKE VTKLIDNNKT EKEILDAFDK MCSKLPKSLS EECQEVVDTY GSSILSILLE EVSPELVCSM LHLCSGTRLP ALTVHVTQPK DGGFCEVCKK LVGYLDRNLE KNSTKQEILA ALEKGCSFLP DPYQKQCDQF VAEYEPVLIE ILVEVMDPSF VCLKIGACPS AHKPLLGTEK CIWGPSYWCQ NTETAAQCNA VEHCKRHVWN KLHHHHHH .

Solubility

It is recommended to add 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.

Precautions

PSAP Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P07602)