

## 32-4505: Recombinant Human Prosaposin

**Alternative Name :** Prosaposin, Proactivator polypeptide, PSAP, GLBA, SAP1.

### Description

Source : HEK 293. 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. 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	Filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	ASGPVLGLKE CTRGSAVWCQ NVKTASDCGA VKHCLQTVWN KPTVKSLPCD ICKDVVTAAG DMLKDNATEE EILVYLEKTC DWLPKPNMSA SCKEIVDSYL PVILDIKGE MSRPGEVCSA LNLCESLQKH LAELNHQKQL ESNKIPELDM TEVVAPFMAN IPLLYPQDG PRSKPQPKDN GDVCQDCIQM VTDIQTAVRT NSTFVQALVE HVKEECDRLG PGMADICKNY ISQYSEIAIQ MMMHMQPKEI CALVGFCDEV KEMPMQTLVP AKVASKNVIP ALELVEPIKK HEVPAKSDVY CEVCEFLVKE VTKLIDNNKT EKEILDAFDK MCSKLPKSLS EECQEVVDY GSSILSILLE EVSPELVCSM LHLCSTRLP ALTVHVTQPK DGGFCEVCKK LVGYLDRNLE KNSTKQEILA ALEKGCSEFLP DPYQKQCDQF VAEYEPVLIE ILVEVMDPSF VCLKIGACPS AHKPLLGTAK CIWGPSYWCQ NTETAAQCNA VEHCKRHVWN KLHHHHHH.

### Application Note

It is recommended to add 200µl 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.