# Recombinant Human PSAP protein, His-tagged

**Cat. No.** PSAP-20H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human PSAP(Met1-Asn524) fused with His tag at C-terminal was expressed in HEK293. |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | 1-524 a.a. |
| **Description** | This gene encodes a highly conserved glycoprotein which is a precursor for 4 cleavage products: saposins A, B, C, and D. Each domain of the precursor protein is approximately 80 amino acid residues long with nearly identical placement of cysteine residues and glycosylation sites. Saposins A-D localize primarily to the lysosomal compartment where they facilitate the catabolism of glycosphingolipids with short oligosaccharide groups. The precursor protein exists both as a secretory protein and as an integral membrane protein and has neurotrophic activities. Mutations in this gene have been associated with Gaucher disease, Tay-Sachs disease, and metachromatic leukodystrophy. Alternative splicing results in multiple transcript variants encoding different isoforms. |
| **Predicted N Terminal** | Gly |
| **Form** | Lyophilized from sterile PBS, pH 7.4. |
| **Molecular Mass** | The recombinant human PSAP consists 519 amino acids and predicts a molecular |

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| | mass of 57.9 kDa. |
| **Endotoxin** | < 1.0 EU per μg protein as determined by the LAL method. |
| **Purity** | > (79.8+19.7) % as determined by SDS-PAGE. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70 centigrade |
| **Storage** | Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |

## GENE INFORMATION

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| **Gene Name** | PSAP prosaposin [ Homo sapiens ] |
| **Official Symbol** | PSAP |
| **Synonyms** | PSAP; prosaposin; GLBA, SAP1, sphingolipid activator protein 1; proactivator polypeptide; variant Gaucher disease and variant metachromatic leukodystrophy; sphingolipid activator protein-1; GLBA; SAP1; FLJ00245; MGC110993; |
| **Gene ID** | 5660 |
| **mRNA Refseq** | NM_002778 |
| **Protein Refseq** | NP_002769 |
| **MIM** | 176801 |
| **UniProt ID** | P07602 |

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| **Chromosome Location** | 10q21-q22 |
| **Pathway** | Glycosphingolipid metabolism, organism-specific biosystem; Hemostasis, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem; |
| **Function** | enzyme activator activity; lipid binding; |

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