

Recombinant Human PSAP protein, His-tagged

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

SPECIFICATION

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

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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