

# Recombinant Full Length Human PSAP Protein, GST-tagged

Cat. No. PSAP-611HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human PSAP(18 a.a. - 524 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	524 amino acids
<b>Description</b>	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.
<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Molecular Mass</b>	81.29 kDa
<b>AA Sequence</b>	PVLGLKECTR GSAVWCQNVK TASDCGAVKH CLQTVWNKPT VKSLPCDICK

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DVVTAAAGDML KDNATEEEIL VYLEKTCDWL PKPNMSASCK EIVDSYLPVI  
 LDIKIGEMSR PGEVCSALNL CESLQKHLAE LNHQKQLESN KIPELDMTEV  
 VAPFMANIPL LLYPQDGPRS KPQPKDNGDV CQDCIQMVTD IQTAVRTNST  
 FVQALVEHVK EECDRLGPGM ADICKNYISQ YSEIAIQMMM HMQPKEICAL  
 VGFCDEVKEM PMQTLVPAKV ASKNVIPALE LVEPIKKHEV PAKSDVYCEV  
 CEFLVKEVTK LIDNNKTEKE ILDAFDKMCS KLPKSLSEEC QEVVDTYGSS  
 ILSILLEEVS PELVCSMLHL CSGTRLPALT VHVTQPKDGG FCEVCKKLVG  
 YLDRNLEKNS TKQEILAALE KGCSFLPDY QKQCDQFVAE YEPVLIEILV  
 EVMDFPSVCL KIGACPSAHK PLLGTEKCIW GPSYWCQNTA TAAQCNAVEH  
 CKRHVWN

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

## 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](#)

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<b>MIM</b>	176801
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<b>UniProt ID</b>	P07602
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