

# Recombinant Full Length Human PSAP Protein, GST-tagged

Cat. No. PSAP-614HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human PSAP(1 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>	83.16 kDa
<b>AA Sequence</b>	MYALFLLASL LGAALAGPVL GLKECTRGSA VWCQNVKTAS DCGAVKHCLQ

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 45-1 Ramsey Road, Shirley, NY 11967, USA

TVWNKPTVKS LPCDICKDVV TAAGDMLKDN ATEEEILVYL EKTCDWLPKP  
 NMSASCKEIV DSYLPVILDI IKGEMSRPGE VCSALNLCES LQKHLAELNH  
 QKQLESNKIP ELDITEVVAP FMANIPLLLY PQDGPRSKPQ PKDNGDVCQD  
 CIQMVTDIQT AVRTNSTFVQ ALVEHVKEEC DRLGPGMADI CKNYISQYSE  
 IAIQMMMHHMQ PKEICALVGF CDEVKEMPMQ TLVPAKVASK NVIPALELVE  
 PIKKHEVPAK SDVYCEVCEF LVKEVTKLID NNKTEKEILD AFDKMCSKLP  
 KSLSEECQEV VDTYGSSILS ILLEEVSPEL VCSMLHLCSG TRLPALTVHV  
 TQPKDGGFCE VCKKLVGYLD RNLEKNSTKQ EILAALEKGC SFLPDYQKQ  
 CDQFVAEYEP VLIEILVEVM DPSFVCLKIG ACPLAHKPLL GTEKCIWGPS  
 YWCQNTETAA QCNAVEHCKR HVWN

**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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