

Recombinant Full Length Human PSAP Protein, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant full length Human PSAP(1 a.a. - 524 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	524 amino acids
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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	83.16 kDa
AA Sequence	MYALFLLASL LGAALAGPVL GLKECTRGSA VWCQNVKTAS DCGAVKHCLQ

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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 SFLPDYPYQKQ
 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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MIM	176801
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UniProt ID	P07602
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